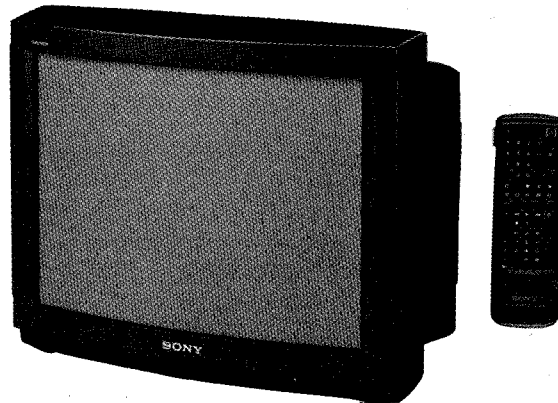


KV-A2911D

RM-816

SERVICE MANUAL

AEP Model
Chassis No. SCC-E18H-A



AE-1C CHASSIS

MODELS OF THE SAME SERIES

KV-A2911D	

SPECIFICATIONS

Television system
Color system
Stereo system
Channel coverage
Picture tube

B/G/H
PAL, SECAM, NTSC3.58, NTSC4.43
GERMAN stereo
VHF: E1-E10.
Black Trinitron tube
Approx. 72.4 cm
(Approx. 68 cm picture measured diagonally)
110°-degree deflection
⊖ 1 21-pin connector:
CENELEC standard including RGB input.
⊖ 2 21-pin connector:
including S video input
Front : ⊖ 3 Audio and video input jacks:
phono jack.
Including S Video input
Y: 1Vp-p±3dB 75ohm
C: 0.3Vp-p±3dB 75ohm
21-pin connector: CENELEC standard
Headphones jack: stereo minijack
External speaker terminals: 2-pin DIN
Audio output jacks: phono jack (output
dependent upon TV settings)

Inputs

Outputs

Sound output 30 W + 30 W
Power consumption 114Wh
Dimensions incl. speakers Approx. 761×568×512 mm (w/h/d)
Weight incl. speakers Approx. 55kg

[RM-816]
Remote control system infrared control
Power requirements 3V dc
2 batteries IEC designation
R6 (size AA)
Dimensions Approx. 75×221×23mm(w/h/d)
Weight Approx. 230g (including batters)
Accessories supplied IEC designation R6 batteries (2)
Supplied accessories RM-816 Remote Commander (1)
IEC designation R6 batteries (2)

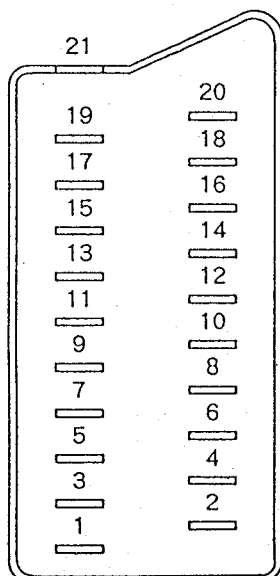
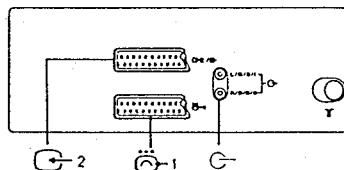
Design and specifications are subject to change without notice.



TRINITRON® COLOR TV

SONY®

21 pin connector (G 1, G 2)



Pin No	1	2	Signal	Signal level
1	○	○	Audio output B (right)	Standard level: 0.5Vrms Output impedance: Less than 1kohm *
2	○	○	Audio input B (right)	Standard level: 0.5Vrms Input impedance: More than 10kohms *
3	○	○	Audio output A (left)	Standard level: 0.5Vrms Output impedance: Less than 1kohm *
4	○	○	Ground (audio)	
5	○	○	Ground (blue)	
6	○	○	Audio input A (left)	Standard level: 0.5Vrms Input impedance: More than 10kohms *
7	○	●	Blue input	0.7V±3dB, 75ohms, positive
8	○	○	Function select (AV control)	High state (9.5-12 V): Part mode Low state (0-2 V): TV mode Input impedance: More than 10kohms Input capacitance: Less than 2 nF
9	○	○	Ground (green)	
10	○	○	Open	
11	○	●	Green	Green signal: 0.7V±3dB, 75ohms, positive
12	○	○	Open	
13	○	○	Ground (red)	
14	○	○	Ground (blanking)	
15	○	○	Red input	0.7V±3dB, 75ohms, positive
	○	○	(S signal) chroma input	0.3V±3dB, 75ohms, positive
16	○	●	Blanking input (Ys signal)	High state (1-3 V) Low state (0-0.4 V) Input impedance: 75ohms
17	○	○	Ground (video output)	
18	○	○	Ground (video input)	
19	○	○	Video output	1V±3dB, 75ohms, positive Sync: 0.3V (-3, +10dB)
20	○	○	Video input	1 V±3dB, 75ohms, positive Sync: 0.3V (-3, +10dB)
	○	○	Video input/Y (S signal)	1 V±3dB, 75ohms, positive Sync: 0.3V (-3, +10dB)
21	○	○	Common ground (plug, shield)	

○ connected

● unconnected (open)

* at 20 Hz-20 kHz


4 pin connector (G 2)

Pin No	Signal	Signal level
1	Ground	
2	Ground	
3	Y (S signal) input	1V ± 3dB 75ohm, positive Sync 0.3V; 3 dB
4	C (S signal) input	0.3V ± 3dB 75ohm positive

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SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

Questions & Answers


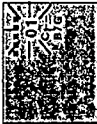
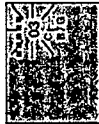



11-2. TV CHANNEL PRESETTING

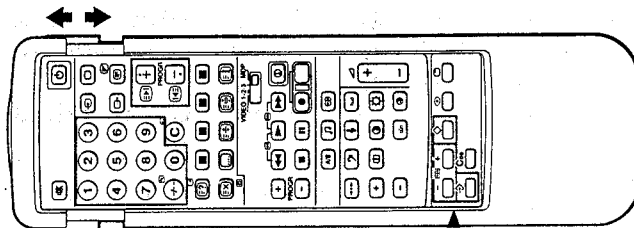
After installing the TV set, TV channels must be preset.

TV broadcasting stations broadcast their programmes on certain fixed frequencies (channels). In order to receive these programmes it is necessary to search for the relevant broadcasting station and to set record it as a channel. The "programme number" is the number that the user decides to associate with a certain channel. For channel settings there are 60 positions available in the memory. In this way all stations broadcasting within the user's country can be received and recorded as a channel.

TV channels automatic presetting


If you are unfamiliar with the transmission frequency of the channels you wish to preset, refer to the section "TV channels automatic presetting". However, if you want to tune them using the frequency of each channel, go to the section "Direct TV channel setting".

Operation	Result
<p>1 Press \diamond to begin the preselection.</p> 	<p>The programme number flashes.</p> 
<p>2 Press PROG + /- or the remote control unit number buttons to select the channel number to which you want to preset the station.</p> <div style="display: flex; align-items: center; justify-content: center;"> <div style="border: 1px solid black; padding: 2px; margin: 0 5px;">+</div> <div style="border: 1px solid black; padding: 2px; margin: 0 5px;">PROG</div> <div style="border: 1px solid black; padding: 2px; margin: 0 5px;">-</div> </div> <div style="display: flex; flex-wrap: wrap; justify-content: center; gap: 10px; margin-top: 10px;"> <div style="border: 1px solid black; padding: 2px; margin: 0 5px;">1</div> <div style="border: 1px solid black; padding: 2px; margin: 0 5px;">2</div> <div style="border: 1px solid black; padding: 2px; margin: 0 5px;">3</div> <div style="border: 1px solid black; padding: 2px; margin: 0 5px;">4</div> <div style="border: 1px solid black; padding: 2px; margin: 0 5px;">5</div> <div style="border: 1px solid black; padding: 2px; margin: 0 5px;">6</div> <div style="border: 1px solid black; padding: 2px; margin: 0 5px;">7</div> <div style="border: 1px solid black; padding: 2px; margin: 0 5px;">8</div> <div style="border: 1px solid black; padding: 2px; margin: 0 5px;">9</div> <div style="border: 1px solid black; padding: 2px; margin: 0 5px;">0</div> </div> <p>NOTE: To select a 2-figure number press the /- button. E.g. if you wish to select number 23, press /- first, and then 2 and 3.</p>	<p>The programme number on the screen changes.</p> 
<p>3 To search for broadcasting stations press $\square +$ and $\square -$ buttons.</p> <div style="display: flex; align-items: center; justify-content: center; gap: 10px;"> <div style="border: 1px solid black; padding: 2px; margin: 0 5px;">$\square +$</div> <div style="border: 1px solid black; padding: 2px; margin: 0 5px;">$\square -$</div> </div>	<p>When a broadcasting station is tuned correctly, the search will stop. If you want to skip it, press $\square +$ or $\square -$ again.</p> 
<p>4 Press \diamond to memorize the channel to that which the broadcasting station is tuned.</p> 	<p>All data disappears from the screen.</p> 
<p>5 To memorize other broadcasting stations repeat steps from 1 to 4.</p>	



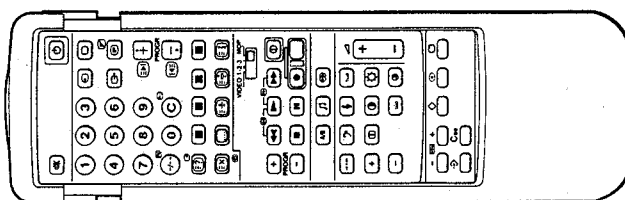
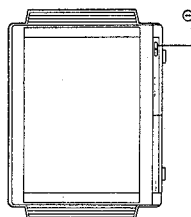
Nota: Utilizzate i tasti indicati nell'illustrazione solo quando preselezionate canali.

Turning the TV unit ON

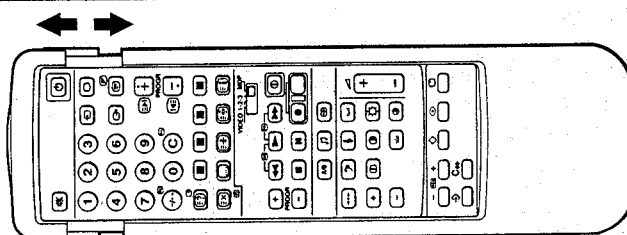
Action	Result
1 Press ⏻ on the TV. 	The TV will turn on. Note: If the screen remains blank, the TV may be in the standby mode. Press ⏻ to switch it on.

Turning the TV unit OFF

A Temporarily	Press Φ to enter the standby mode. The TV will be in the standby mode. To return to the TV mode press \square .
B Completely	Press Φ on the TV set. The TV will be turned off.



Direct TV channel setting	
Operation	Result
1 Press \Rightarrow to begin the presetting.	The programme number begins to flash on the screen.
2 Press PROG + / - or the number buttons on the remote control unit to select the channel number to which you want to preset the station. Note To select a 2-figure number press - / - button. E.g., if you wish to select number 23, press - / - first, and then 2 and 3.	The programme number on the screen changes.
3 Press C. If you wish to select a cable station, press C twice.	Indication "C-" ("S-" for cable stations) flashes on the screen.
4 By using the number buttons of the remote control unit select the channel number, always with two figures (for "4" press "04"). Note: Press the second number within 5 seconds of the first. After 5 seconds the operation is cancelled.	The channel number changes on the screen. Note: In case of mistake, the "X" letter appears on the screen. Repeat once more the operation of step 4.
5 Press \diamond to memorize the channel to which the station is tuned.	All indications disappear from the screen.
To memorize other broadcasting stations repeat the above procedure.	

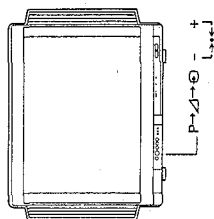


Broadcasting station identification	
Operation	Result
1 By using PROG + or - or the number keys of the remote control unit, select the programme number to be set for identification.	The programme number to be set for identification appears on the screen.
2 Press \Rightarrow	The number flashes on the screen.
3 Press \square	The first indication line flashes on the screen.
4 Press the + or - buttons to select a letter of the alphabet, a number, or a blank space.	Alphabetic letters, numbers or a blank space (" ") appear on the screen, in that order.
5 Press \square	In this way the first character has been set, and the following position now flashes on the screen.
6 Repeat steps 4 and 5, and fill all five available spaces.	
7 Press \diamond	All indications disappear from the screen, except the programme number. All indications remaining on the screen have been memorized.

Temporary channel tuning	
It is possible to temporarily memorize a channel, even if it has not been preset.	
Operation	Result
1 Press C. Press C twice for a cable station.	"C" ("S" for cable stations) indication appears on the screen.
2 Using the number keys of the remote control unit select the channel number, always with two figures (e.g., "04" for channel "4").	The channel will be received, but it will not be set as a programme number.

1-3. BASIC FUNCTIONS

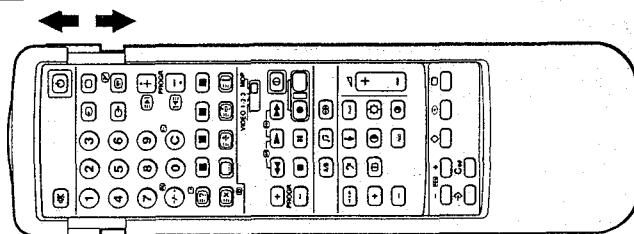
Per aprirlo premere
sulla freccia. (↓)



Skipping channels

Using the PROG + /- buttons you can skip unused programme numbers. However, the skipped numbers may still be called up using the number buttons.

Operation	Result
1 Press → to begin presetting.	The programme number begins to flash on the screen.
2 By using the PROG + and - buttons, or the number keys of the remote control unit, select the programme number you wish to skip.	The programme number changes.
3 Press Coo.	Under the programme number, the lowest channel number appears.
4 Press ◇.	All indications under the programme number disappear from the screen. The skipped programme number will be memorized.



Manual fine tuning

If the picture is not perfect, it is possible to fine tune it manually.

Operation	Result
Press [F] + or - repeatedly until the picture is at the optimum.	The indication -F- appears on the screen.
Press → to start presetting.	The programme number starts flashing on the screen.
Press ◇.	Manual fine tuning has been memorized.

Note: Manual fine tuning will be reset when the channel is selected again.

Programme selection

Before selecting programmes make sure that TV channels have been memorized.

Operation	Result
Press PROG + /- buttons or the number keys of the remote control unit. To select a 2-figure number press /- button. E.g. if you wish to select number 23, press /- first, and then 2 and 3.	The selected programme number appears on the screen.

Volume control

Operation	Result
Press ∆ + or -.	The volume indication appears on the screen.

Use of additional functions

Use of other functions with the TV set buttons

It is also possible to select programmes and to adjust the volume by using P → ∆ → ◇ and → + or - buttons, located on the front panel of the TV set. In this case, press first P → ∆ → ◇ until the indication P (channel) or ∆ (volume) appears on the screen, and then press → + or - buttons.

Use of teletext service

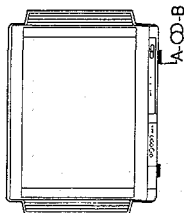
Press ⊞. To return to the TV mode, press ⊞. For further information on the teletext service

Selection of the video input

Press ⊞. To return to the TV mode, press ⊞. For further details.

1-4. SPECIAL FUNCTIONS

This section explains the use of functions for adjusting pictures and sound. Use the "complete" side of the remote control unit.



Use of special functions

The following functions can be used.

Function	Operation	Reset
Indication display	Press Q	Press Q again.
Sound muting	Press W	Press W again.
Language selection for bilingual programmes	Press A/B. The selected language is displayed by the relevant indication on the screen.	Press A/B.
Sound adjustment for music programmes.	Press J	Press J again.
Use of special sound effects.	Press Q	Press Q again.
Time display (only during teletext broadcasting).	Press Q	Press Q again.

Picture and sound adjustment

Although the picture and sound have been adjusted at the factory, you might want to adjust them to your own taste. To do this, please follow the steps below.

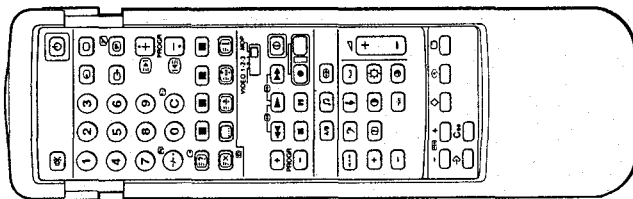
To Adjust	Press	Then:	Result: (+ -- -)
Picture:			
Colour Intensity	Q		More ++ Less
Contrast	Q	+	More ++ Less
Brightness	Q	-	Bright ++ Dark
Hue (for NTSC only)	W		Reddish ++ Greenish
Sharpness	Q		More ++ Less
Sound:			
Bass	?	+	More ++ Less
Treble	?	-	More ++ Less
Balance	W		Left ++ Right

To reset the picture and sound to factory set levels, press **→←**.

On the set: Press the **→←** and **+/-** buttons simultaneously.

1-5. USE OF THE TELETEXT SERVICE

Through the teletext service a great deal of information can be received at any time. Broadcasting stations make this service available through TV broadcasts. To use the teletext service, use the green keys on the "complete" side of the remote control unit. When the "simple" side of the remote control unit is used, only the basic functions are available.








How to display teletext service

Operation	Result
1 Select the channel you want to watch.	The channel changes on the screen.
2 Press Q	If there is no teletext signal, the indication "Page 100" appears on the screen.
3 Use the number keys of the remote control unit to insert the three figures corresponding to the desired teletext page. Note In case of a mistake, press any three numbers, and then repeat the operation with the correct numbers.	The selected page number appears on the screen. After a few seconds, the selected page appears on the screen.
To return to normal TV programmes: Press Q .	
To change teletext channel: First press Q to return to the TV mode, and then repeat steps 1 to 3.	

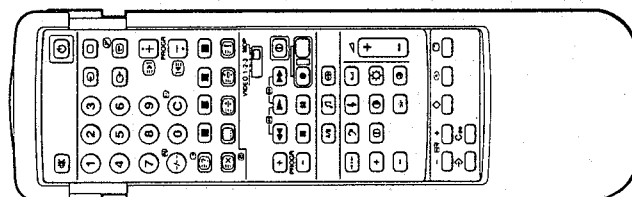
Note: A weak TV signal may cause trouble in the use of teletext.

Use of special teletext functions

Required function	Operation	Result (on the screen)
Page index required.	Press Q (INDEX).	Page index appears.
Sub-pages required (page 888).	Press Q .	The sub-page appears (page 888).
Access to previous or following pages.	Press Q (PAGE +) or Q (PAGE -).	The preceding or the following page appears.

Required function	Operation	Result (on the screen)
Superimposition of the teletext on the TV programme.	In the TV mode, press Ⓢ twice. To return to the normal teletext function press Ⓢ again.	Teletext information will appear superimposed on the TV programme. 
To prevent page changes due to page updating.	Press Ⓢ (STILL). Press Ⓢ (TXT/MIX) to return to the normal function.	The Ⓢ (STILL) symbol appears on the screen. 
Magnification of teletext characters.	Press Ⓢ once to magnify the upper half of the screen. Press twice to magnify the lower half of the screen. By pressing the button three times the normal vision is restored.	The upper or the lower half of the page is magnified. 
Display of hidden information (answers to quizzes, etc.).	Press Ⓢ (RIV). Press again to hide the answers.	The information is displayed. 
Watching a programme while the teletext searches for the required page.	1. Ask again for the page.	The number is displayed.
	2. Press Ⓢ	TV programme is displayed.
	3. When the required page has been found, the page number will be displayed.	P201 
Display of a page at a preset time.	4. Press Ⓢ to display the page.	The desired page will be displayed.
	1. Request the page.	The selected page will be displayed.
	2. Press Ⓢ (MEM.T).	In the lower part of the screen the indication "T****" appears.
	3. Set the required time by using the number keys, and by inputting four figures (e.g. 0730 for "7:30").	The required time is displayed on the screen.
	To watch TV programmes until a preset time Press Ⓢ (CANC.). At the required time, the selected page appears in the upper part of the screen. Press Ⓢ to display the page.	
	To cancel the request Display the teletext page and then press Ⓢ (CANC.M.).	

Note: Depending on the teletext service, certain functions may not be available.



Use of the FASTEXT function

The FASTEXT function allows rapid access, at the touch of a single button, to the teletext functions. In the lower part of the screen, a colour coded index will be displayed when a FASTEXT teletext page is broadcasted. Each colour corresponds to the colored keys on the remote control unit.

Operation

Operation	Result
Press one of the coloured keys on the remote control unit corresponding to the coloured indications of the FASTEXT teletext page.	The selected teletext page appears on the screen.

Note:
The correct use of the FASTEXT function depends on the signal being broadcast by the TV stations. Some TV stations may not broadcast FASTEXT teletext signal.

1-6. CONNECTIONS AND OPTIONAL FUNCTIONS

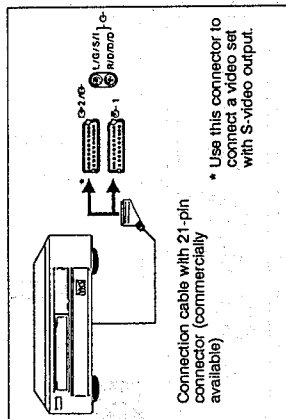
This TV set may be connected to other audio/video machines, such as videocameras, VTRs, videodisc players, or stereo systems.

Connection to an external audio/video system

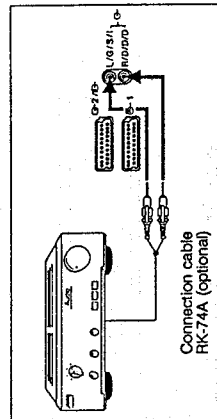
This TV set incorporates three groups of connectors, for input and output to the TV signal. Each group has the following characteristics.

Connector	Input signal	Output signal
Ⓔ-1	Normal audio/video signal or RGB signal	TV tuner audio/video signal
Ⓔ-2/Ⓔ-3	Normal audio/video signal and S-video signal	Audio/video signal from a selectable source
Ⓔ-3, Ⓔ-1, Ⓔ-2 front panel	Normal audio/video signal and S-video signal	No signal

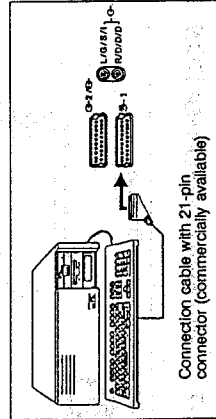
Connection of a TV set



Connection of an audio unit

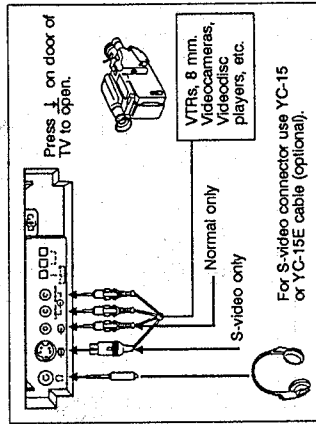


Connection to a computer with RGB output



Temporary connection of video apparatus

For a temporary connection (e.g. of a videocamera) use the front panel terminals.



Connection of a videotape recorder through the T connector

Connect the antenna input (AERIAL-IN) of the TV set to the antenna output (AERIAL-OUT) of the videotape recorder.

S-video input (Y/C input)

The video signal is formed by two separate signals: the luminance (Y) and the chrominance (C). Through the separation of the two signals it is possible to improve picture quality (luminance in particular), preventing reciprocal interference. This TV set features two S-video sockets able to directly receive this type of signal.

Pictures with distortion

Move the TV set away from the videotape recorder if pictures or sound become distorted.

Video programme playback

Using the input selector, pictures coming from a videotape recorder connected to the TV sets input may be played back.

Operation

Operation	Result
Select the desired video input by pressing Ⓔ repeatedly.	The symbol of the selected input appears on the screen (see table below).
Press Ⓔ button to return to TV mode.	

Selectable inputs

Symbol	Selected input
Ⓔ-1	Audio/video signal from Ⓔ-1 connector.
Ⓔ-1	RGB signal from Ⓔ-1 connector.
Ⓔ-2	Audio/video signal from Ⓔ-2/Ⓔ-3 connector.
Ⓔ-2	S-video signal (from a VTR with S-video output) from Ⓔ-2/Ⓔ-3 connector.
Ⓔ-3	Audio/video signal from Ⓔ-1, Ⓔ-2 connector located on the front panel.
Ⓔ-3	S-video signal from S-video Ⓔ-3 (4 pin) connector located on the front panel.
Input can be selected also with the p-Δ-Ⓔ buttons of the TV set.	
In this case, first select Ⓔ, and then press the + / - buttons to select the desired input.	

Selection of video output

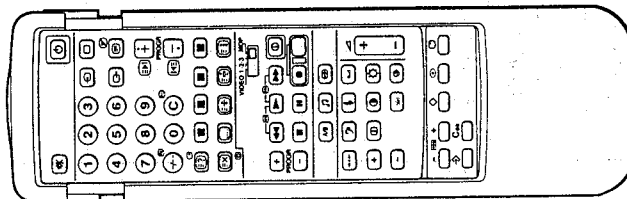
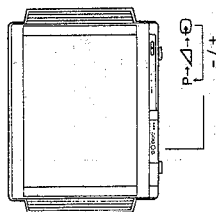
The Ⓔ-2/Ⓔ-3 connector may output 4 video signals. Select the outgoing video signal in the following way.

Operation

Operation	Result
Press Ⓔ repeatedly to select the desired video output.	The selected video output symbol appears on the screen (see the table following).

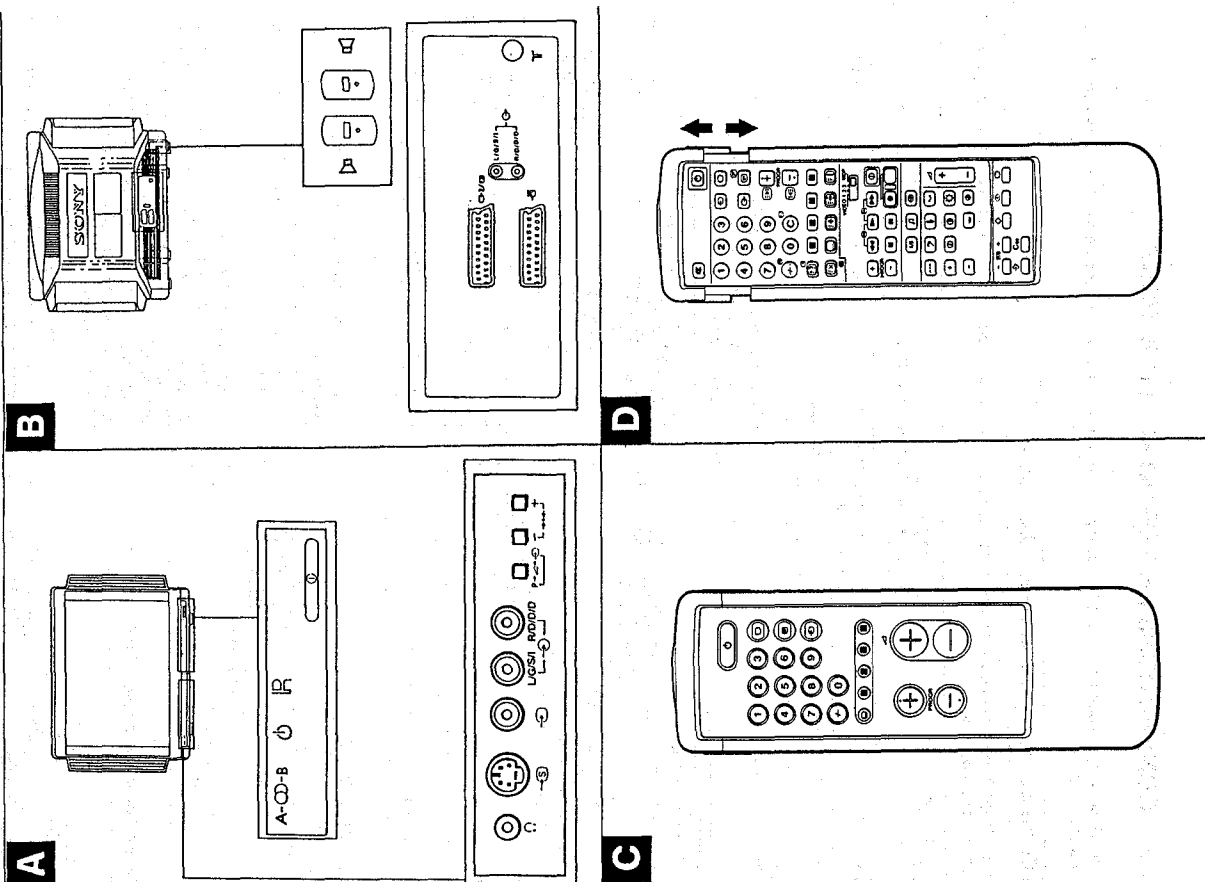
Output signal

Symbol	Selected output
1 Ⓔ	Audio/video signal from Ⓔ-1 connector.
2 Ⓔ	Audio/video signal from Ⓔ-2/Ⓔ-3 connector.
3 Ⓔ	Audio/video signal from Ⓔ-1 and Ⓔ-2 connectors.
TV Ⓔ	Audio/video signal from T-type antenna connector T.



1-7. GENERAL INFORMATION

Components identification



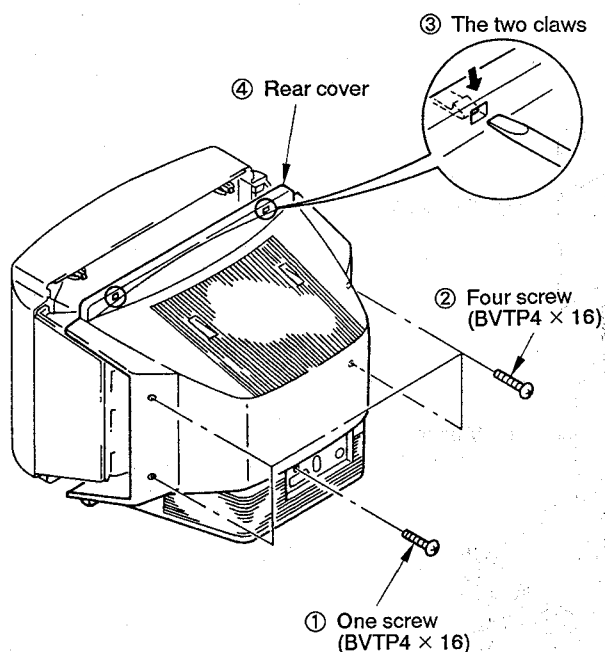
This section briefly describes controls of the TV set and the remote control unit, and their relevant functions.

A TV set front panel		D Remote control unit — complete side	
Indication	Description	Indication	Description
	Power switch		Sound muting key
	Standby switch		Standby key
A - C - B	Bilingual function indicators	1,2,3,4,5, 6,7,8,9,0	Number keys
	Headphones connector (stereo mini-jack)		Input selector
	Input connectors (S-video/video/audio)		TV set power switch and TV mode selector
	Function selector (programme/volume/input)		Output selector
	Function adjustment keys		Teletext key
			Music programme key
		A/B	Bilingual programmes language selection
			Channel selection key/2-figure programmes
			Channel direct selection key
			Special sound effect key
			Time display
			Teletext operation keys
			FASTEXT operation buttons
			Display key
			Reset key
			Volume adjustment keys
		PROGR +/-	Programme selection keys
			Image and audio adjustment keys
		VIDEO 1/2/3, MDP	Video unit selector
			Video units function key
			Programme cancelling key
			Channel presetting key
			Channel tuning keys
			Channel storing keys
			Broadcasting stations identification key

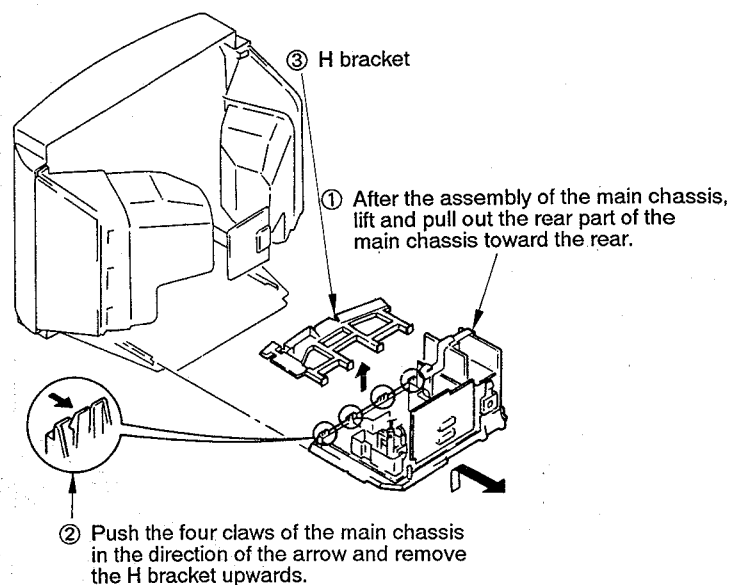
B TV set rear panel		C Remote control unit — simplified side	
Indication	Description	Indication	Description
	Speaker connectors (upper: left speaker; lower: right speaker)		Input selector
	Connector 2: Euro AV (SCART, 21-pin), S-video In/Video In/TV/Video out signals.		Teletext service key
	Connector 1: Euro AV (SCART, 21-pin), RGB In/Video In/TV/out signals.		FASTEXT operation buttons
	Audio output connectors (RCA pin)		TV set power switch and TV mode selector
	Antenna connector (of IEC standard)		Standby key
		1,2,3,4,5, 6,7,8,9,0	Number keys
			Channel selection key/2-figure programmes
			Volume adjustment key
		PROGR +/-	Programme selection key

SECTION 2 DISASSEMBLY

2-1. REAR COVER REMOVAL

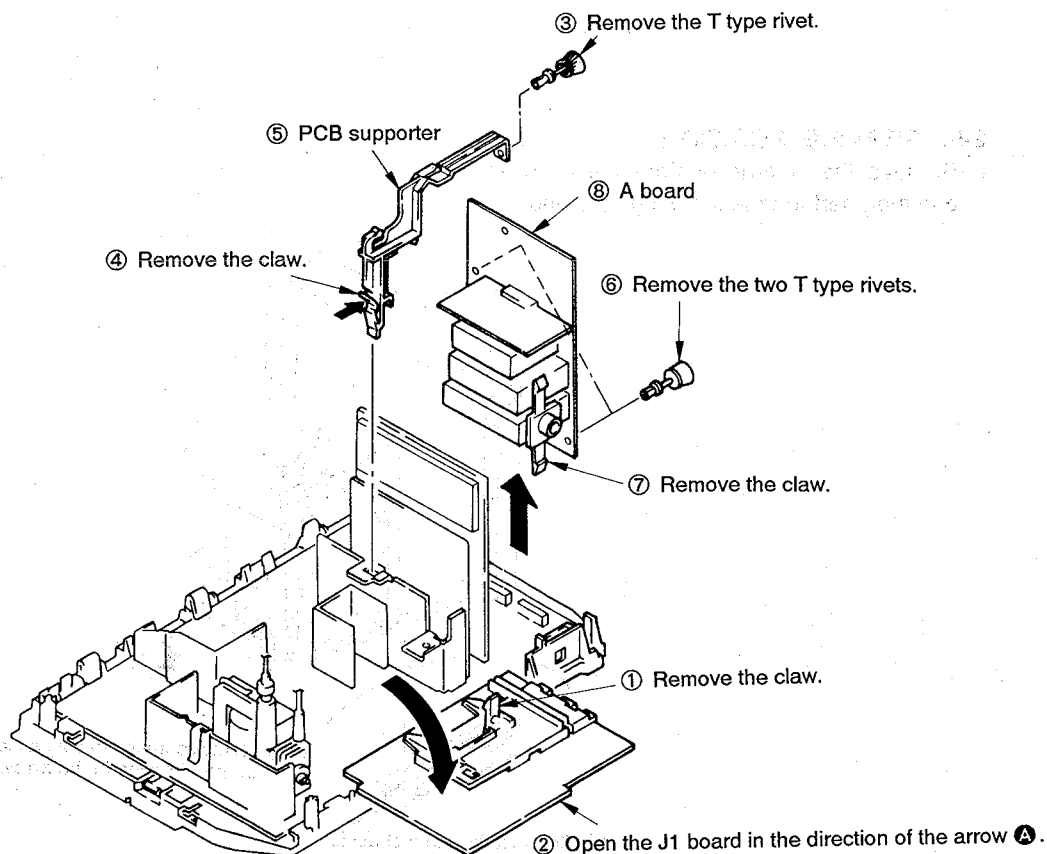


2-2. CHASSIS ASSEMBLY REMOVAL

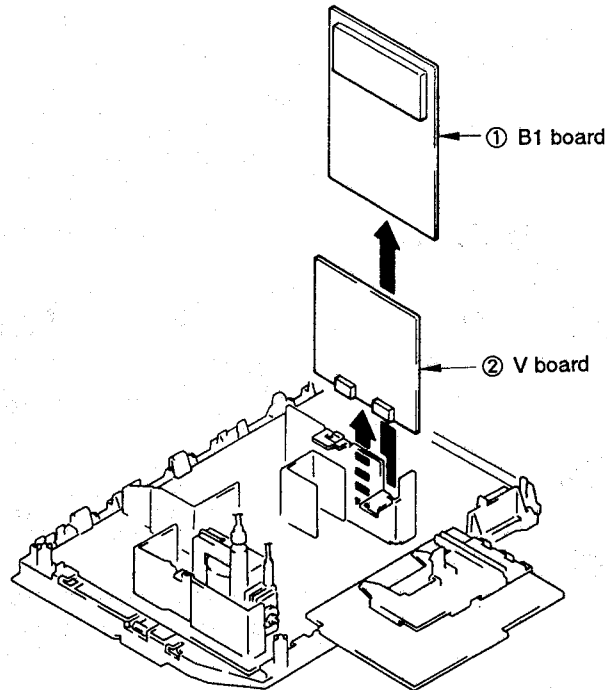


※ Remove the H bracket from the main assembly and then perform the following servicing.

2-3. A AND J1 BOARDS REMOVAL

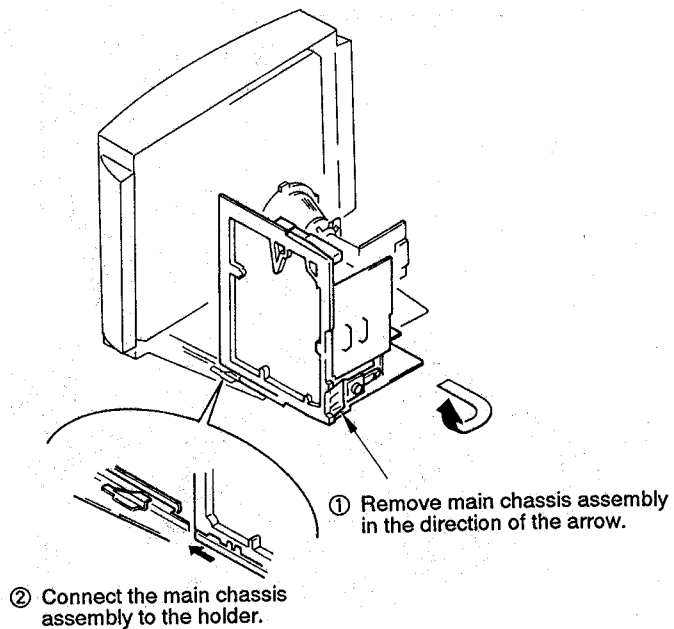


2-4. B1 AND V BOARDS REMOVAL

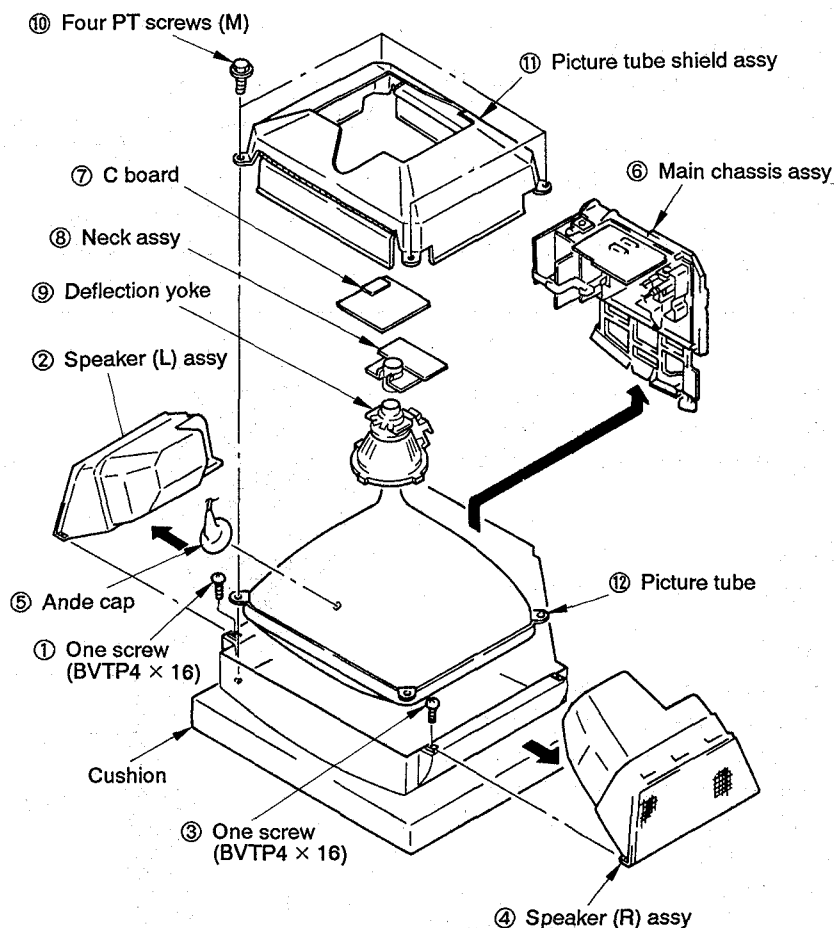


2-5. SERVICE POSITION

※ Remove the H bracket from the main assembly and then perform the following servicing.

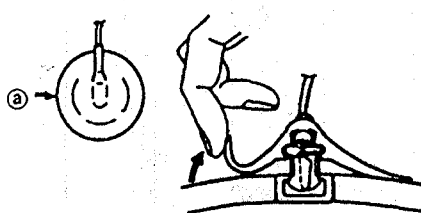


2-6. PICTURE TUBE REMOVAL

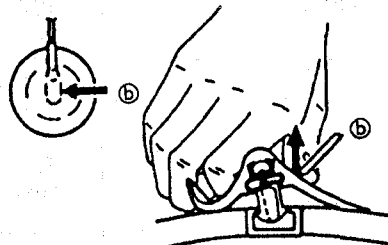


• REMOVAL OF ANODE-CAP

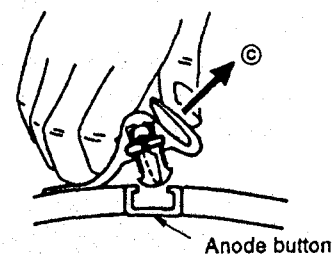
• REMOVING PROCEDURES



① Turn up one side of the rubber cap in the direction indicated by the arrow (a).



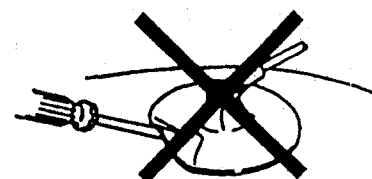
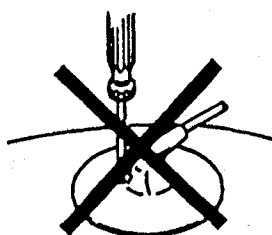
② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow (b).



③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow (c).

• HOW TO HANDLE AN ANODE-CAP

- ① Don't hurt the surface of anode-caps with sharp shaped material!
- ② Don't press the rubber hardly not to hurt inside of anode-caps!
A material fitting called as shatter-hook terminal is built in the rubber.
- ③ Don't turn the foot of rubber over hardly!
The shatter-hook terminal will stick out or hurt the rubber.

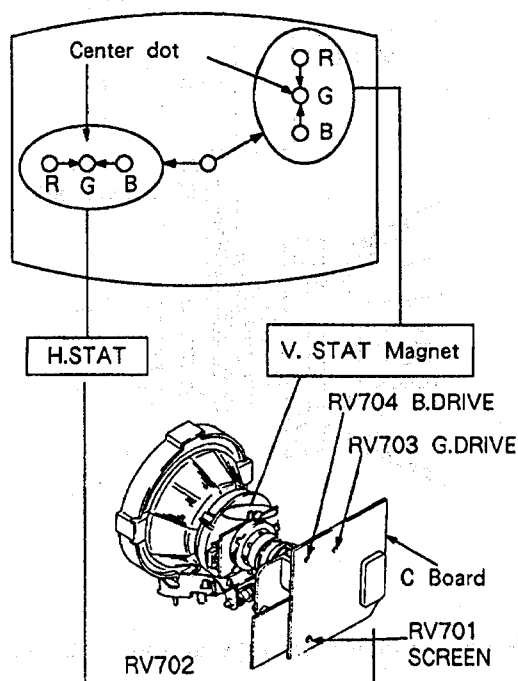


3-2. CONVERGENCE

Preparations :

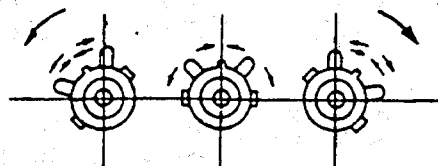
- Before starting this adjustment, adjust the focus, horizontal size, and vertical size.
- Minimize the brightness setting.
- Provide dot pattern.

(1) Horizontal and vertical static convergence

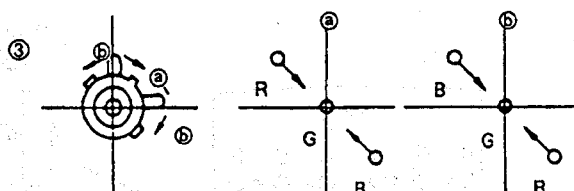
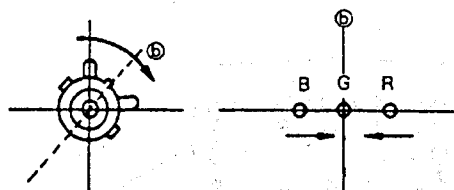
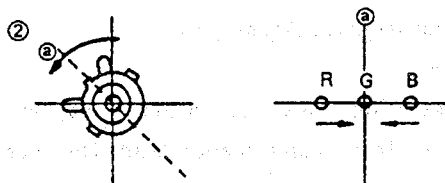
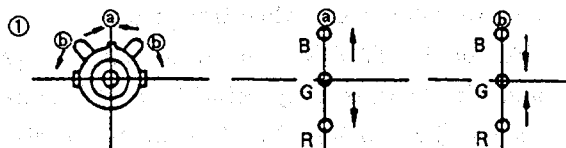


1. (Moving horizontally), adjust the H.STAT control so that the red, green, and blue points are on top of each other at the center of the screen.
2. (Moving vertically), adjust the V.STAT magnet so that the red, green, and blue points are on top of each other at the center of the screen.
3. If the H.STAT variable resistor cannot bring the red, green, and blue points together at the center of the screen, adjust the horizontal convergence with the H.STAT variable resistor and the V. STAT magnet in the manner given below.
(In this case, the H.STAT variable resistor and the V. STAT magnet influence each other)

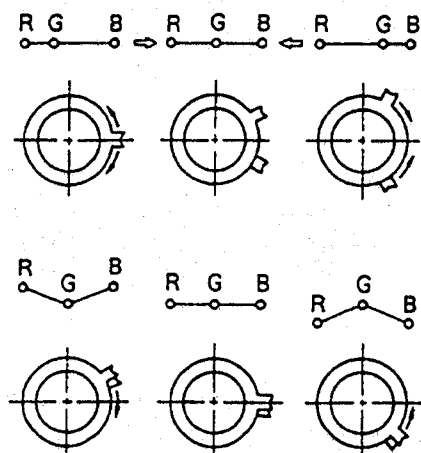
- Tilt the V.STAT magnet and adjust the static convergence by opening or closing the V.STAT magnet.



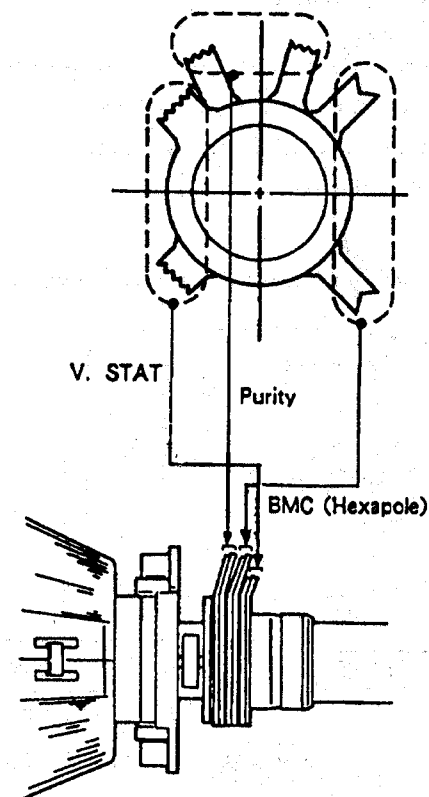
4. If the V.STAT magnet is moved in the direction of the (a) and (b) arrows, the red, green, and blue points move as shown below.



● Operation of BMC (Hexapole) Magnet



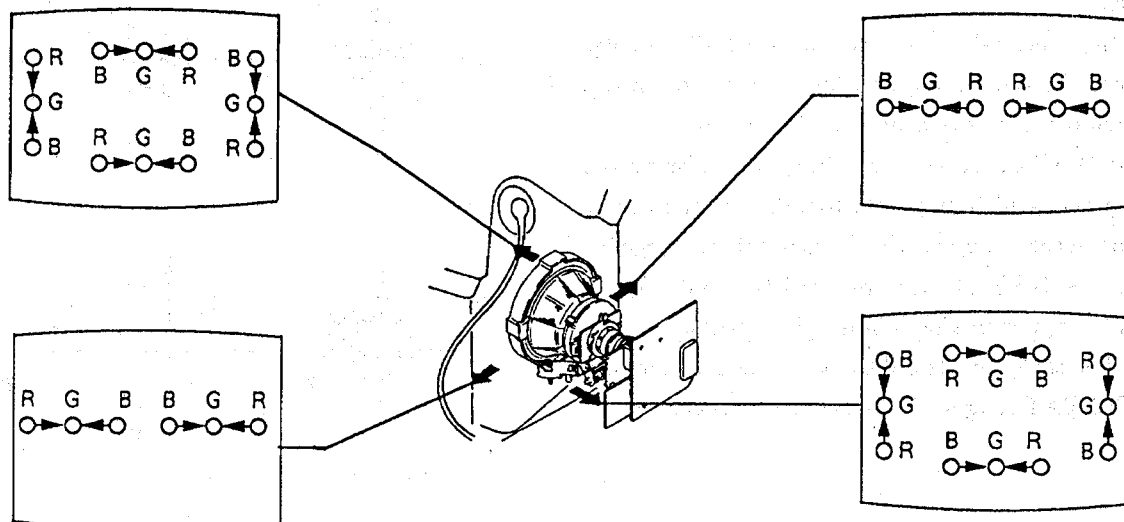
- The respective dot positions resulting from moving each magnet interact, so be sure to perform adjustment while tracking. Use the H.STAT VR to adjust the red, green, and blue dots so they coincide at the center of screen (by moving the dots in the horizontal direction).

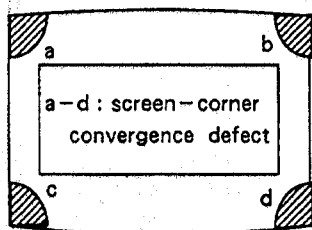


(2) Dynamic convergence adjustment

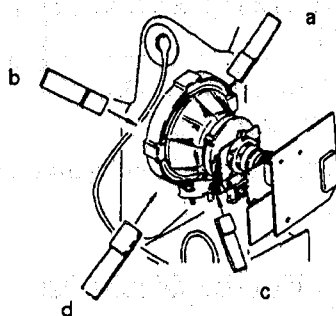
Preparations :

- Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence.
1. Slightly loosen the deflection yoke screws.
2. Remove the deflection yoke spacer.
3. Move the deflection yoke as shown in the figure below and optimize the convergence.
4. Tighten the deflection yoke screws.
5. Install the defelection yoke spacer.



(3) Screen corner convergence

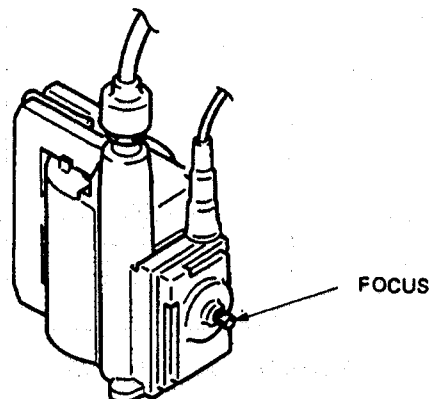
Install the permalloy assembly for the section with faulty.



Permalloy

3-3. FOCUS

Adjust the focus to optimize the screen.

**3-4. WHITE BALANCE****[Screen G2 setting]**

1. Input the dot signal from the pattern generator.
2. Set the picture brightness control to its lowest level.
3. Apply 170V DC to the R, G, and B cathodes with an external power supply.
4. While watching the picture, adjust G2 control RV701 (Screen) to the point just before the return lines disappear.

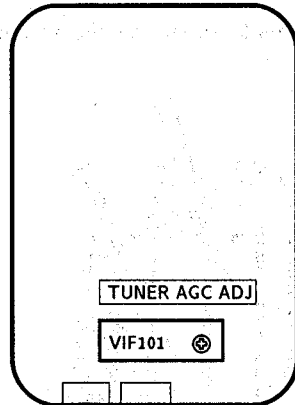
[White balance adjustment]

1. Input an all-white signal from the pattern generator.
2. Set the picture brightness and color controls to their normal levels.
3. Use the RV704 (B Drive) and RV703 (G Drive) to adjust white balance.

In the adjustments below, have the picture color and brightness settings at their normal levels unless there is a specific instruction to the contrary.

SECTION 4 CIRCUIT ADJUSTMENTS

4-1. A BOARD ADJUSTMENTS

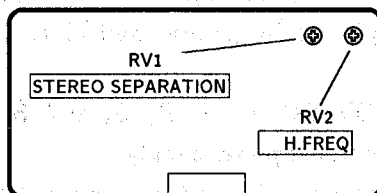


A BOARD (COMPONENT SIDE)

TUNER AGC ADJUSTMENT (AGC VR)

1. Align with an appropriate signal between stations.
2. Adjust AGC VR so that snow noise and cross modulation just disappear from the picture.

IFG5.5S SIF



IFG5.5S SIF -component side-

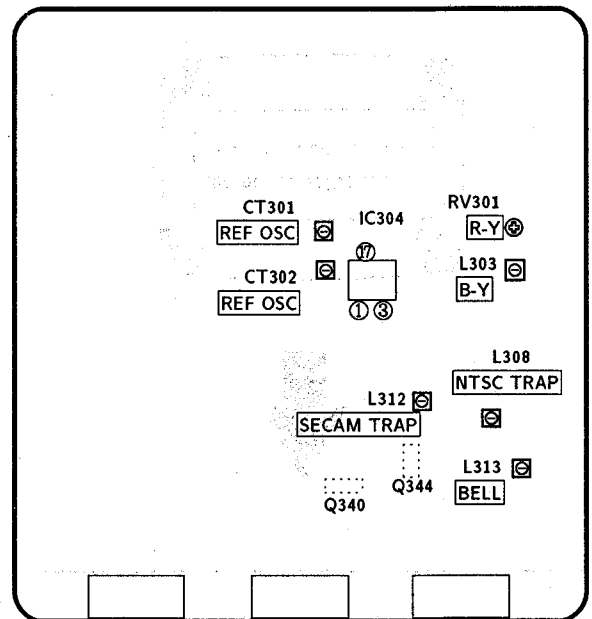
STEREO SEPALATION ADJUSTMENT (RV1)

1. Input stereo signals. (L-CH 400Hz, R-CH 1KHz)
2. Check the stereo indicator.
3. Connect on oscilloscope to pin⑧ (CH1) of CN1 through band pass filter of 1KHz
4. Adjust RV1 so that 1KHz voltage goes down to the minnum.

H FREQ (RV2)

1. Input a PAL COLOR BAR signal, then connect a jumper between pin⑫ IC4 and GND.
2. Connect a frequency counter to pin④ IFG5.5S (HP) of CN1 through a probe of 10 : 1.
3. Adjust RV2 (H.FREQ) $15.625 \pm 50\text{Hz}$.
4. After adjustment, remove the jumper.

4-2. B1 BOARD ADJUSTMENTS



B1 BOARD (COMPONENT SIDE)

REFERENCE OSCILLATOR ADJUSTMENT (CT302 8.8MHz)

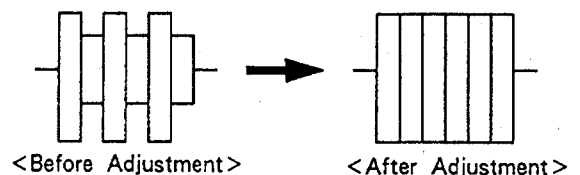
1. Input a PAL color bar signal.
2. Ground pin ⑦ of the IC304.
3. Adjust CT302 to obtain synchronization.

REFERENCE OSCILLATOR ADJUSTMENT (CT301 7.16MHz)

1. Input an NTSC color bar signal.
2. Ground pin ⑦ of IC304.
3. Adjust the CT301 to obtain synchronization.
4. Remove the jumper grounding pin ⑦ of IC304.

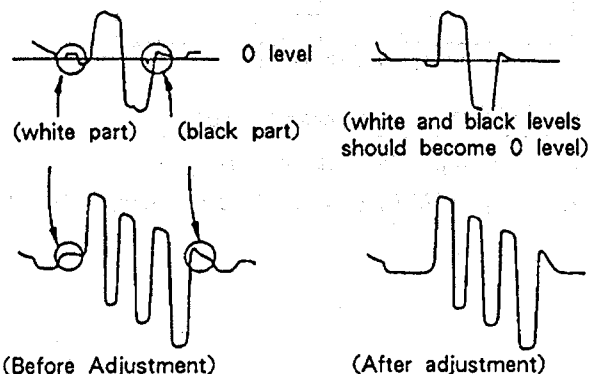
BELL FILTER ADJUSTMENT (L313)

1. Input a SECAM color bar signal.
2. Connect the oscilloscope to the emitter of Q344.
3. Adjust L313 so that the waveform is flat.

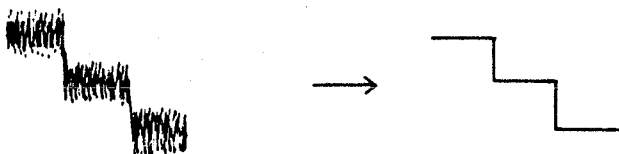


**DISCRIMINATION ADJUSTMENTS
(RV301 and L303)**

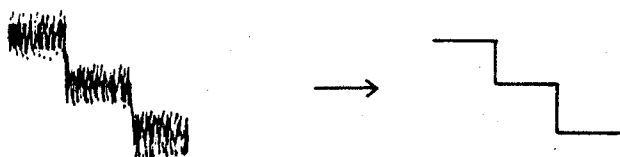
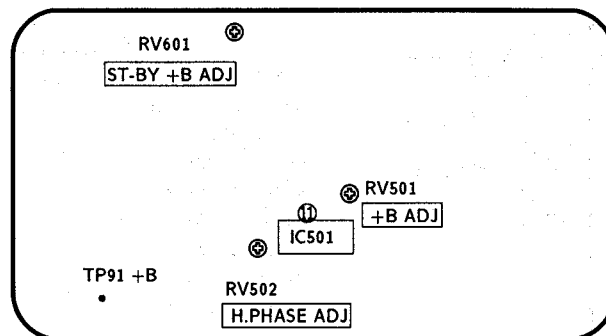
1. Input a SECAM color bar signal.
2. Connect the oscilloscope to pin ① of IC304.
3. Adjust RV301 until the white and black sections of the waveform at pin ① are at the 0 level.
Connect the oscilloscope to pin ③ of IC304.
4. Adjust L303 until the white and black sections of
5. the waveform at pin ③ are at the 0 level.

**SECAM TRAP (L312)**

1. Input a SECAM color bar signal.
2. Connect oscilloscope to Q340 emitter and adjust L312 to minimize color carrier on the Y-signal.

**NTSC TRAP (L308)**

1. Input a NTSC (3.58) color bar signal.
2. Connect oscilloscope to Q340 emitter and adjust L308 to minimize color carrier on the Y-signal.

**4-3. D BOARD ADJUSTMENTS**

D BOARD (COMPONENT SIDE)

+B ADJUSTMENT (RV501)

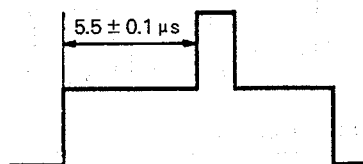
1. Connect the digital multimeter to TP91.
2. Adjust RV501 to obtain $135 \pm 0.2V$.

ST-BY +B ADJUSTMENT (RV601)

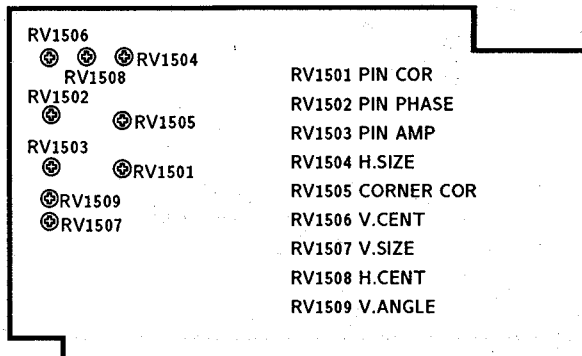
1. Put the system into ⏻ standby mode (remote commander).
2. Connect the digital multimeter to TP91.
3. Adjust RV601 to obtain $135 \pm 3V$.
4. Take the system out of ⏻ standby mode (remote commander).

H.PHASE ADJUSTMENT (RV502)

1. Input a PAL color bar signal.
2. Set the picture and brightness controls to their normal levels.
3. Set RV1508 (H.CENT) to its mechanical center.
4. Connect the oscilloscope to pin ⑪ (SCP) of IC 501.
5. Rotate RV502 to adjust to $5.5 \pm 0.1 \mu s$.



4-4. J1 BOARD ADJUSTMENTS

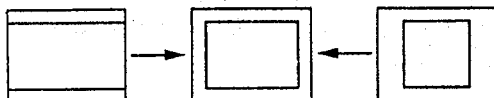


J1 BOARD (COMPONENT SIDE)

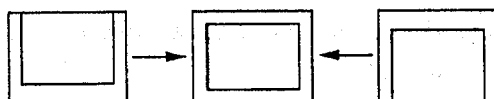
RV1508
H. CENT (HORIZONTAL CENTER)



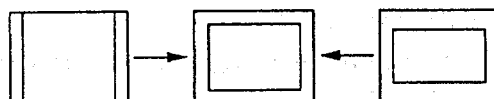
RV1504
H. SIZE (HORIZONTAL SIZE)



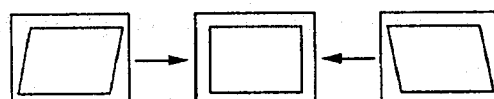
RV1506
V. CENT (VERTICAL CENTER)



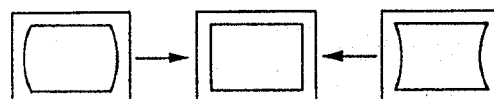
RV1507
V. SIZE (VERTICAL SIZE)



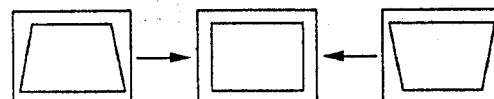
RV1509
V. ANGLE (VERTICAL ANGLE)



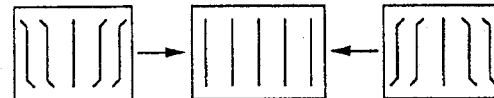
RV1503
PIN AMP (PINCUSHION AMPLIFIER)



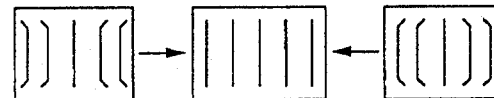
RV1502
PIN PHASE (PINCUSHION PHASE)



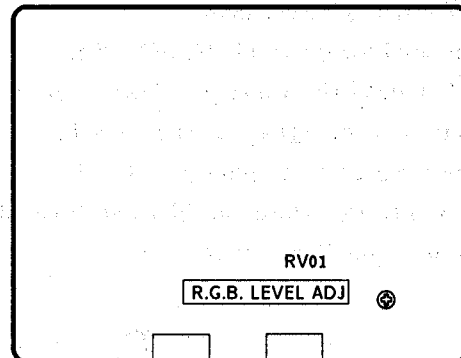
RV1501
PIN. COR (PINCUSHION CORRECT)



RV1505
CORNER COR (CORNER CORRECT)



4-5. V BOARD ADJUSTMENT



V BOARD (COMPONENT SIDE)

RGB LEVEL ADJUSTMENT (RV01)

1. Maximize the picture setting.
2. Adjust RV01 so that the RGB output is 0.75V.

4-6. SECONDARY ADJUSTMENTS

SUB BRIGHTNESS ADJUSTMENT

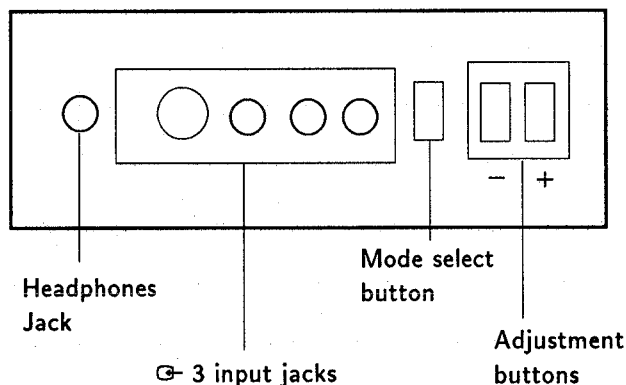
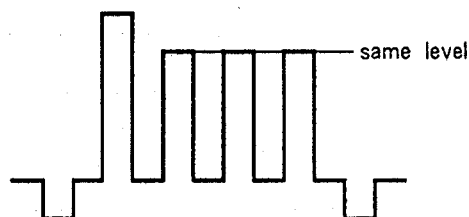
1. Set the system to receive a test pattern.
2. Press $\rightarrow \bullet \leftarrow$ on the remote commander to put the system into normal mode.
3. Switch off the power.
4. While depressing the adjusting buttons + and - simultaneously, turn on the power. (SUB mode is obtained)
5. Minimize the \bullet contrast setting.
6. Adjust the \odot brightness control so that the gray scale 0 IRE section is cut off completely and the 20 IRE section is barely glowing.
7. Depress the \diamond (store) button of the remote commander. (SUB mode is released)

If there is no test color pattern

1. Set the system to receive a color pattern.
2. Press $\rightarrow \bullet \leftarrow$ on the remote commander to put the system into normal mode.
Set the \odot color to its normal state.
- 3-5. Steps are the same as above.
6. Since 20 IRE is nearly blue, adjust the \odot brightness control so that the blue barely glows.
7. Same as step 7 above.
8. Press $\rightarrow \bullet \leftarrow$ on the remote commander to put the system into normal mode.

SUB COLOR ADJUSTMENT

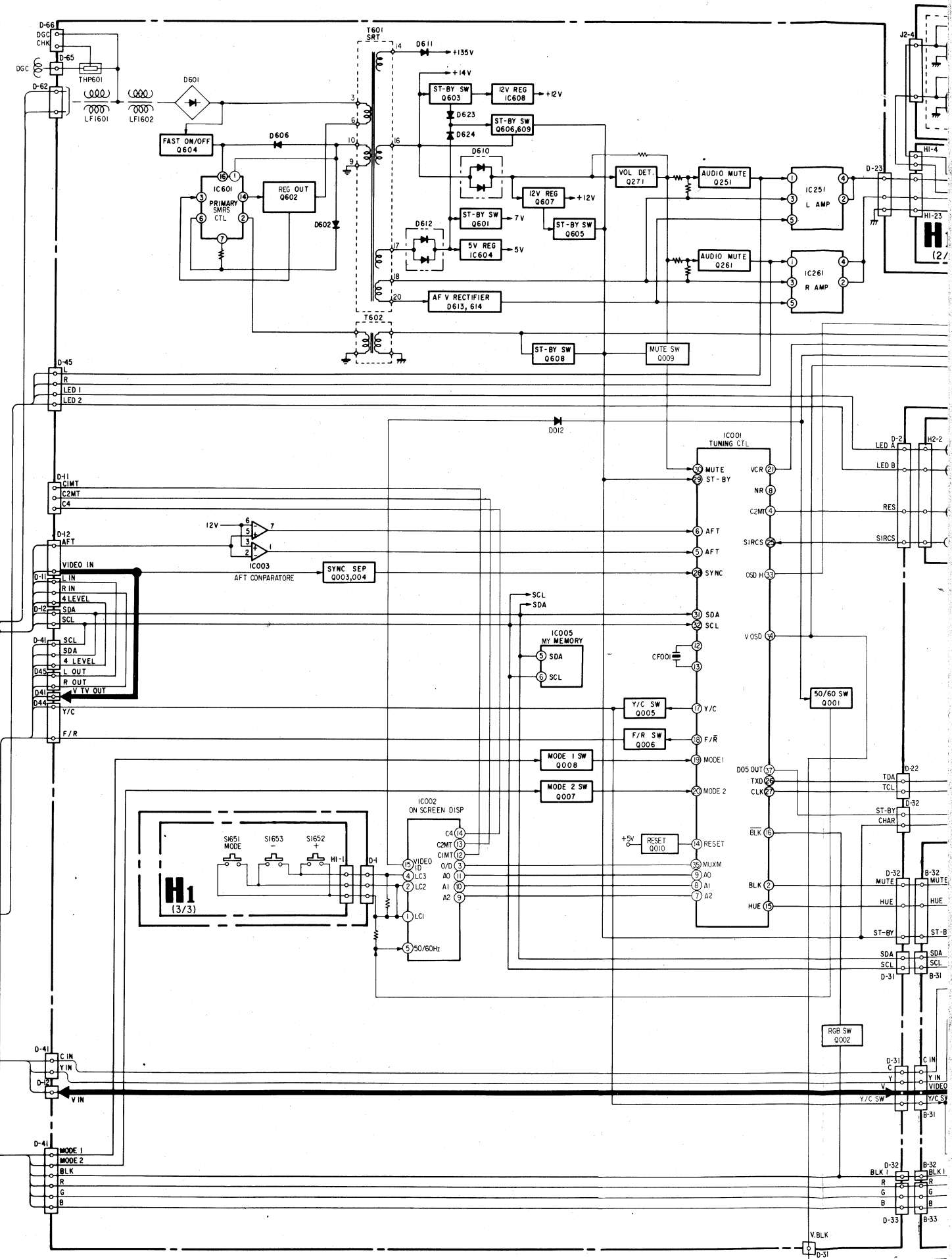
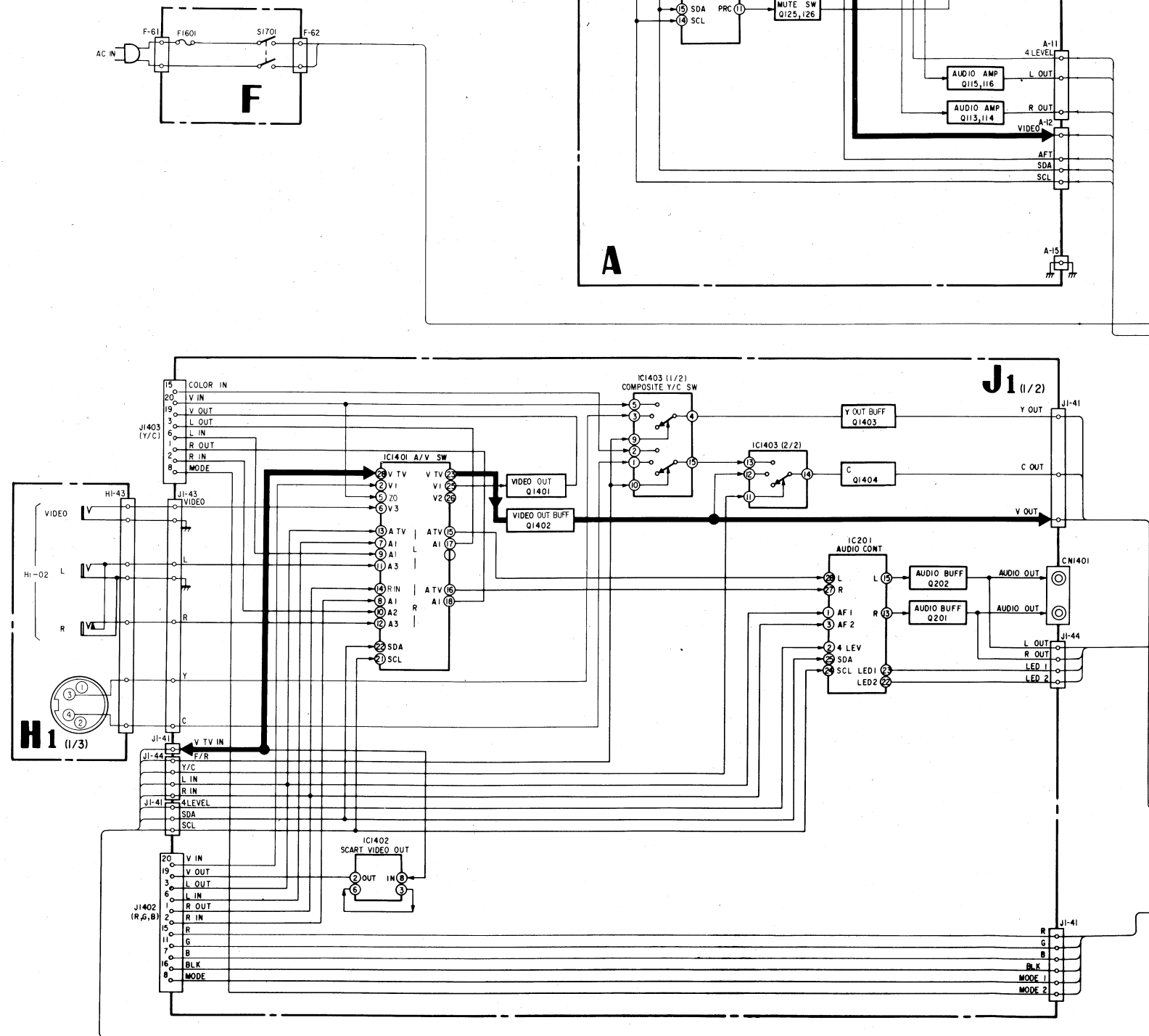
1. Set the system to receive color bars.
2. Press $\rightarrow \bullet \leftarrow$ on the remote commander to put the system into normal mode.
3. Cut off the power.
4. While depressing the adjustment buttons + and - simultaneously, turn on the power. (SUB mode is obtained).
5. Adjust the color control so that the B out waveform (pin ⑤ of C board connector CNC72) is as shown in the figure below.
6. Depress the \diamond (store) button of the remote commander. (SUB mode is released)

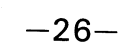


MEMO

5-1. BLOCK DIAGRAM

SECTION 5
DIAGRAMS





H1

CONTROL SW,
AV INPUT,
HEADPHONE

H2

SIRCS RECEIVER,
INDICATOR

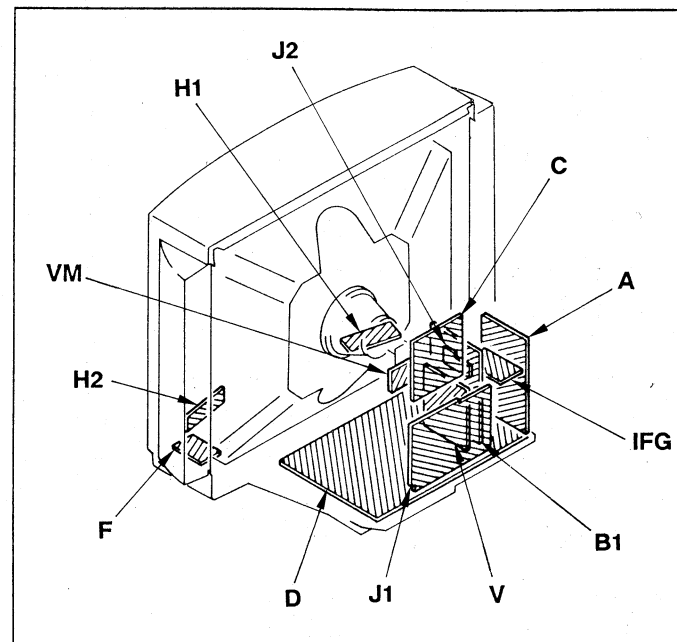
F


[AC IN POWER SW]

J2

SPEAKER
TERMINAL

5-2. CIRCUIT BOARDS LOCATION







5-3. SCHEMATIC DIAGRAMS AND PRINTED
WIRING BOARDS – Conductor Side –

Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.

Note:



- All capacitors are in μF unless otherwise noted. pF: μF 50 WV or less are not indicated except for electrolytic and tantalums.
- All resistors are in ohms.
 $k\Omega = 1000\Omega$, $M\Omega = 1000K\Omega$
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5 mm
Rating electrical power $\frac{1}{4}$ W

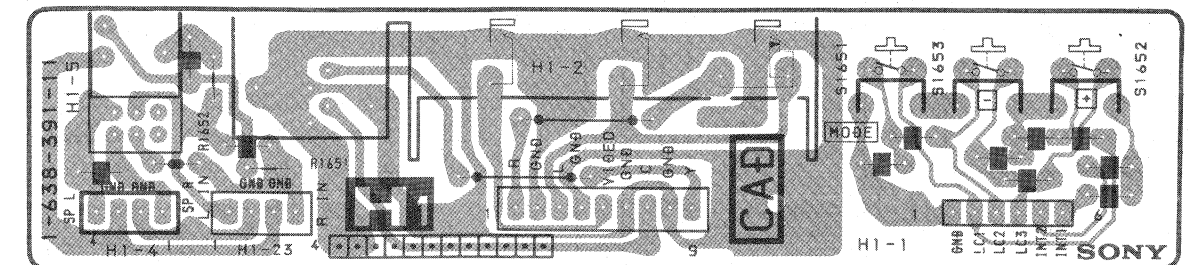
-  : nonflammable resistor.
-  : internal component.
-  : panel designation, or adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
-  : earth-ground.
-  : earth-chassis.
-  : no mounted.

Reference information

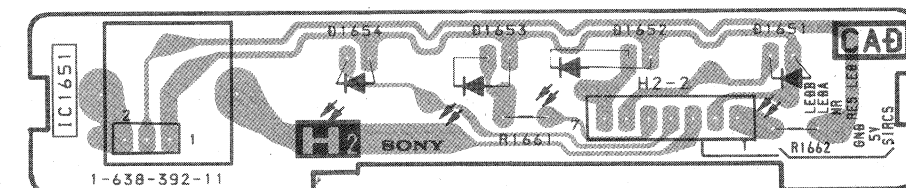
RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
	: RW	NONFLAMMABLE WIREWOUND
	: *	ADJUSTMENT RESISTOR
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

- Readings are taken with a color-bar signal input.
- Readings are taken with a $10M\Omega$ digital multimeter.
- Voltage are dc with respect to ground unless otherwise noted.
- Voltage variations may be neted due to normal production tolerances.
- All voltages are in V.
- Circled numbers are waveform references.
-  : B+ bus.
-  : signal path.(RF)

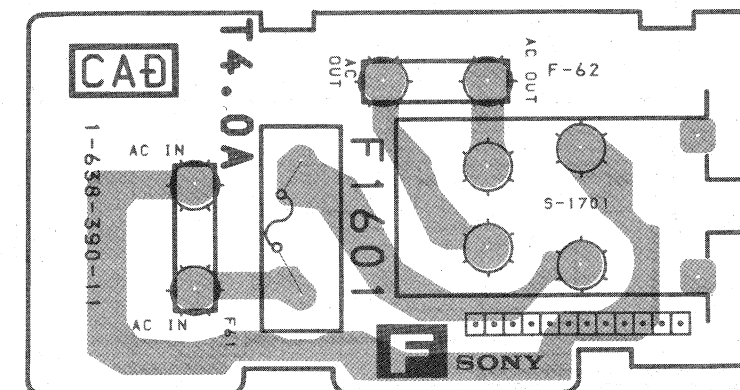
– H1 Board –



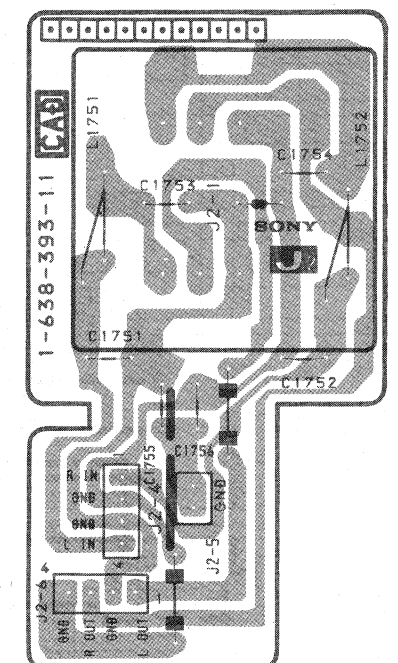
– H2 Board –



– F Board –

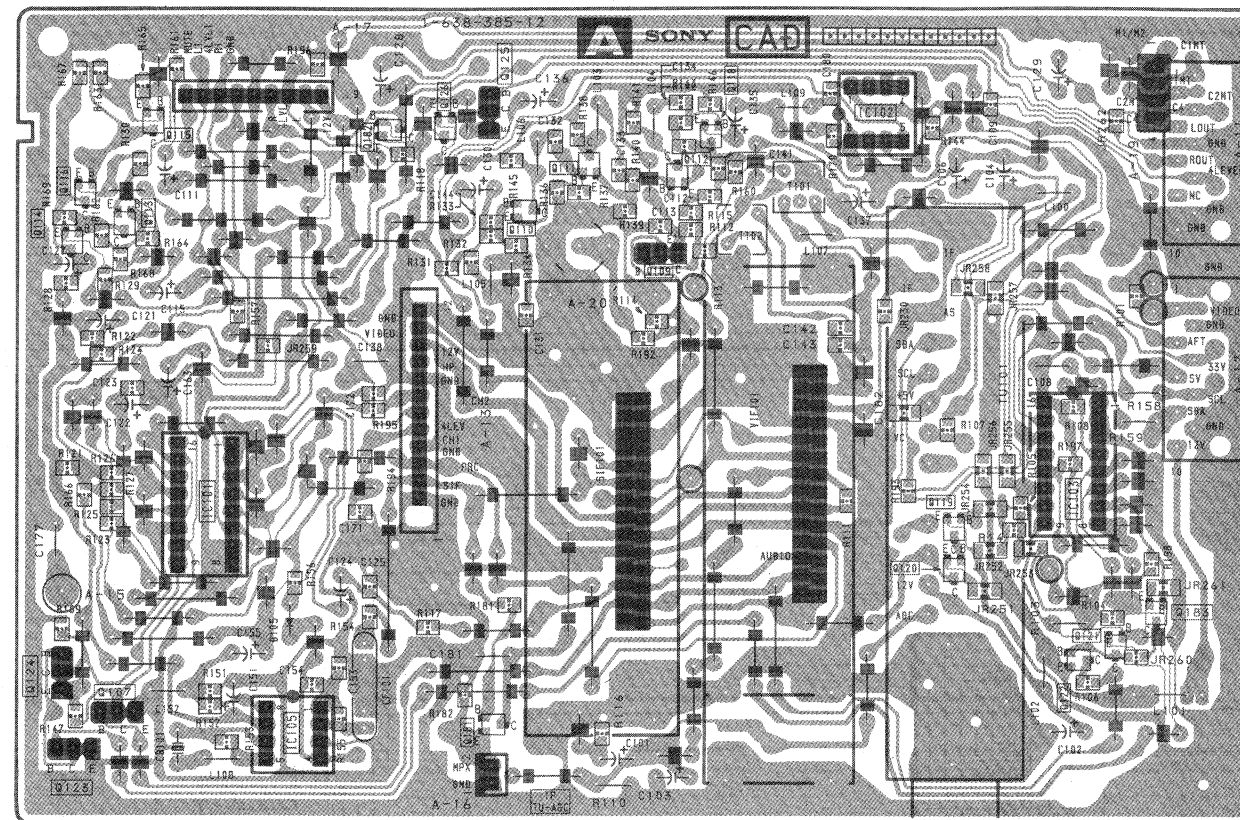


– J2 Board –

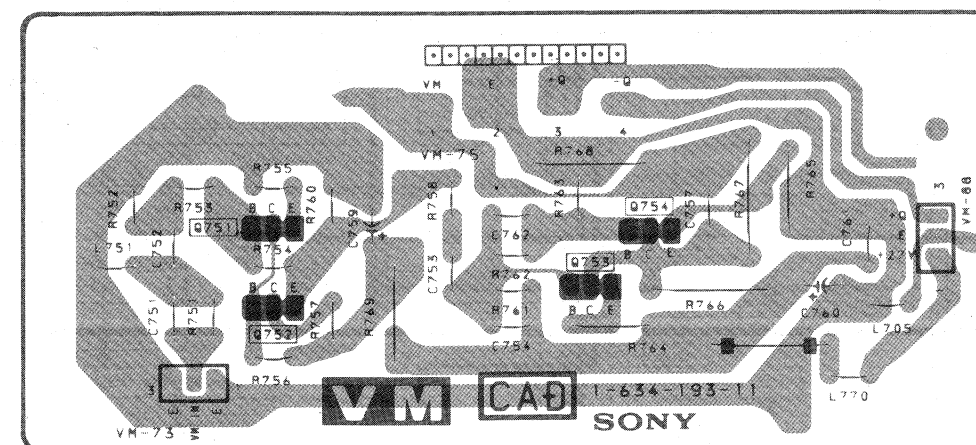


A [TUNER, SIF, VIF]**VM** [VM AMP]**J1** AUDIO CONTROL, AV INPUT
Y/C INPUT, SCAR VIDEO OUT,
EAST-WEST CORRECTION

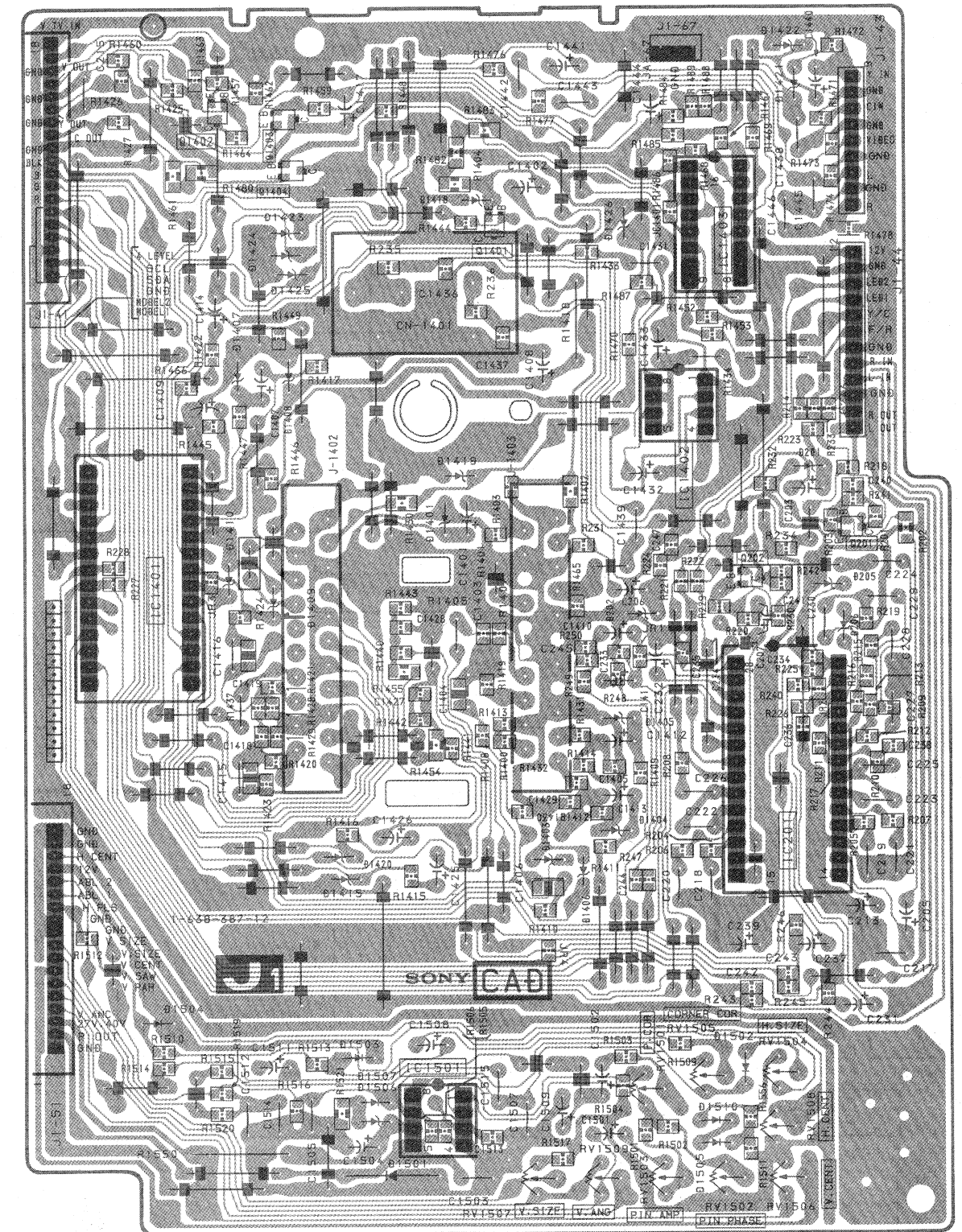
- A Board -



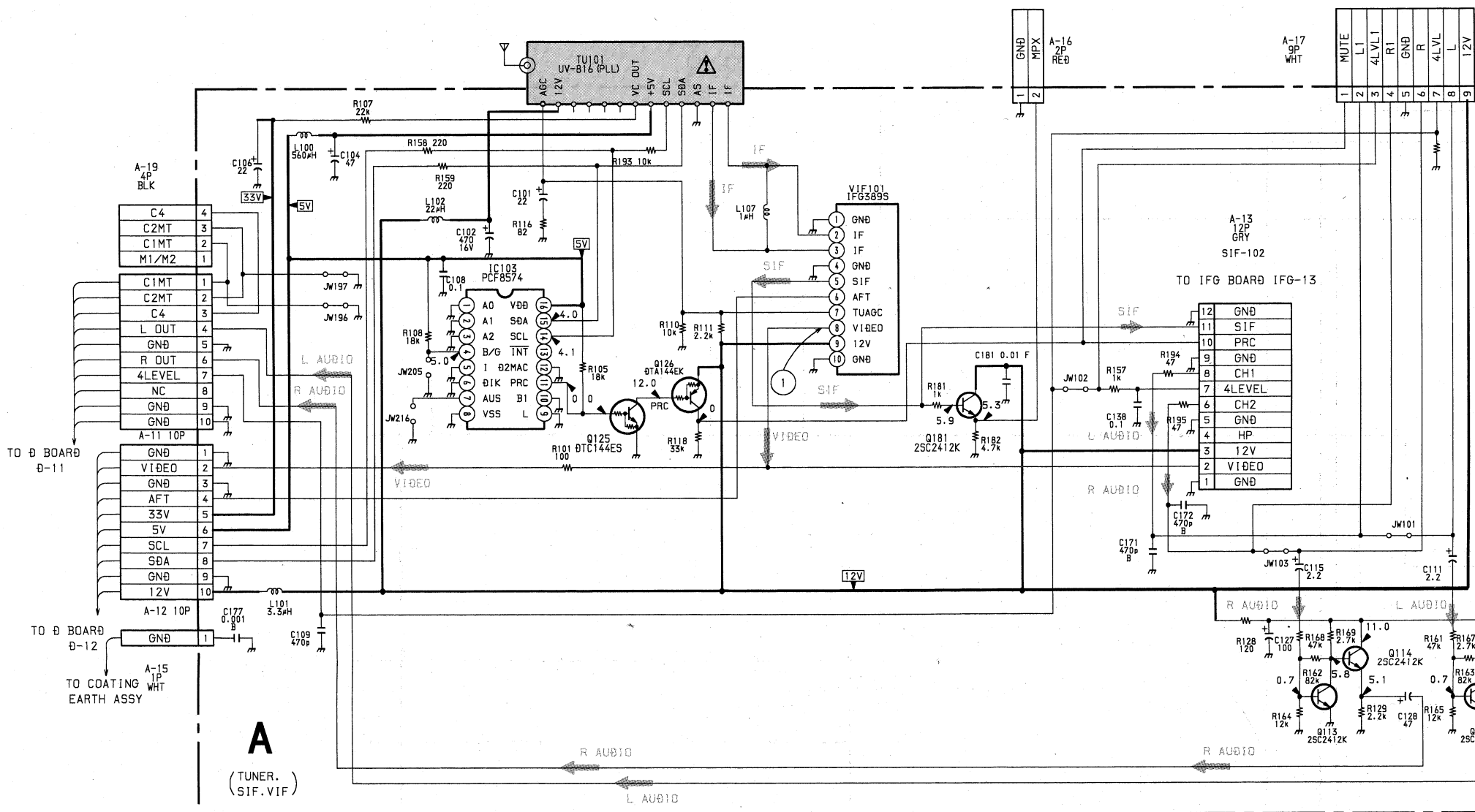
- VM Board -



- J1 Board -



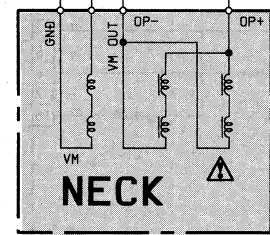
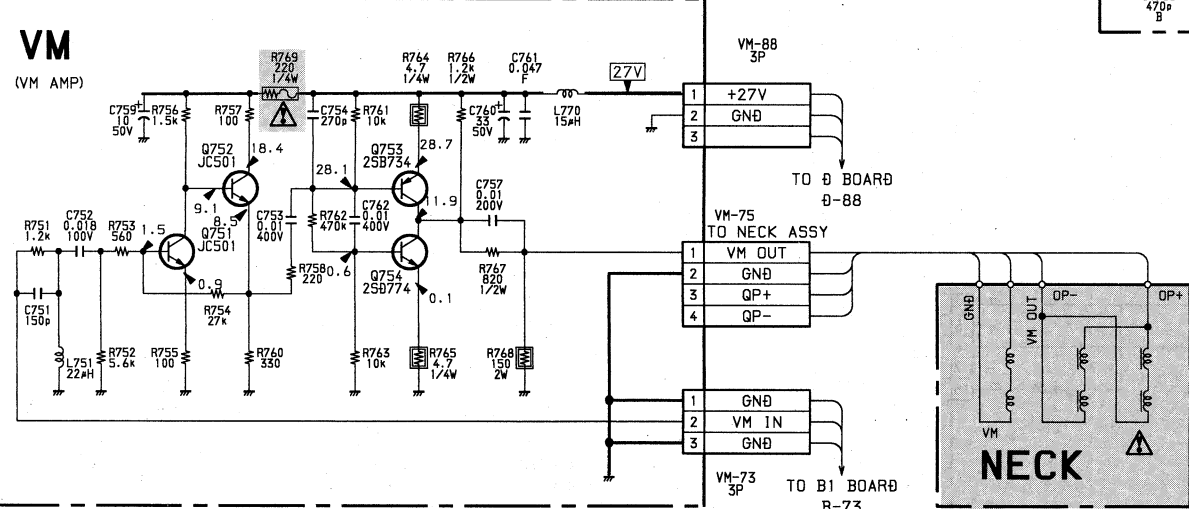
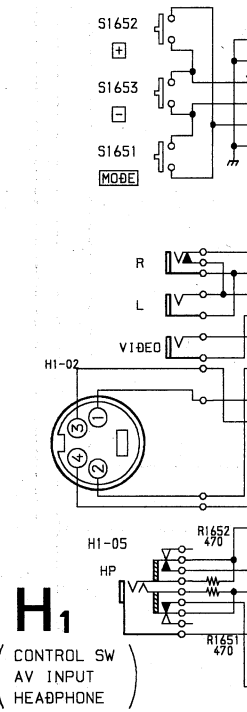
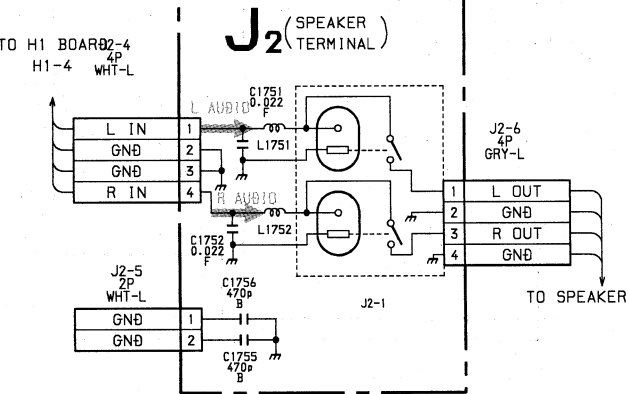
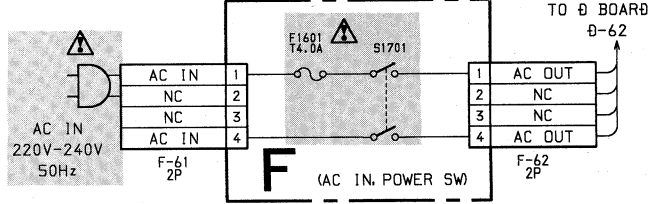
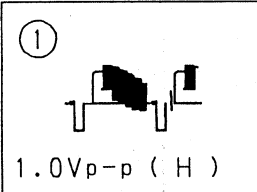
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P



A Board

IC103	PCF8574P	EXPANDER
Q113	2SC2412K	AUDIO AMP
Q114	2SC2412K	AUDIO AMP
Q115	2SC2412K	AUDIO AMP
Q116	2SC2412K	AUDIO AMP
Q125	DTC114EK	MUTE SW
Q126	DTA114EK	MUTE SW
Q181	2SC2412K	NICAM BUFFER

Waveforms A Board

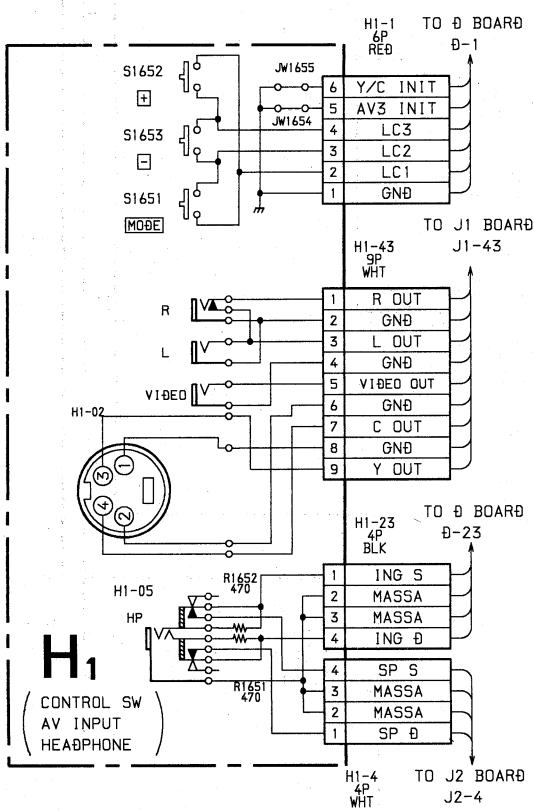
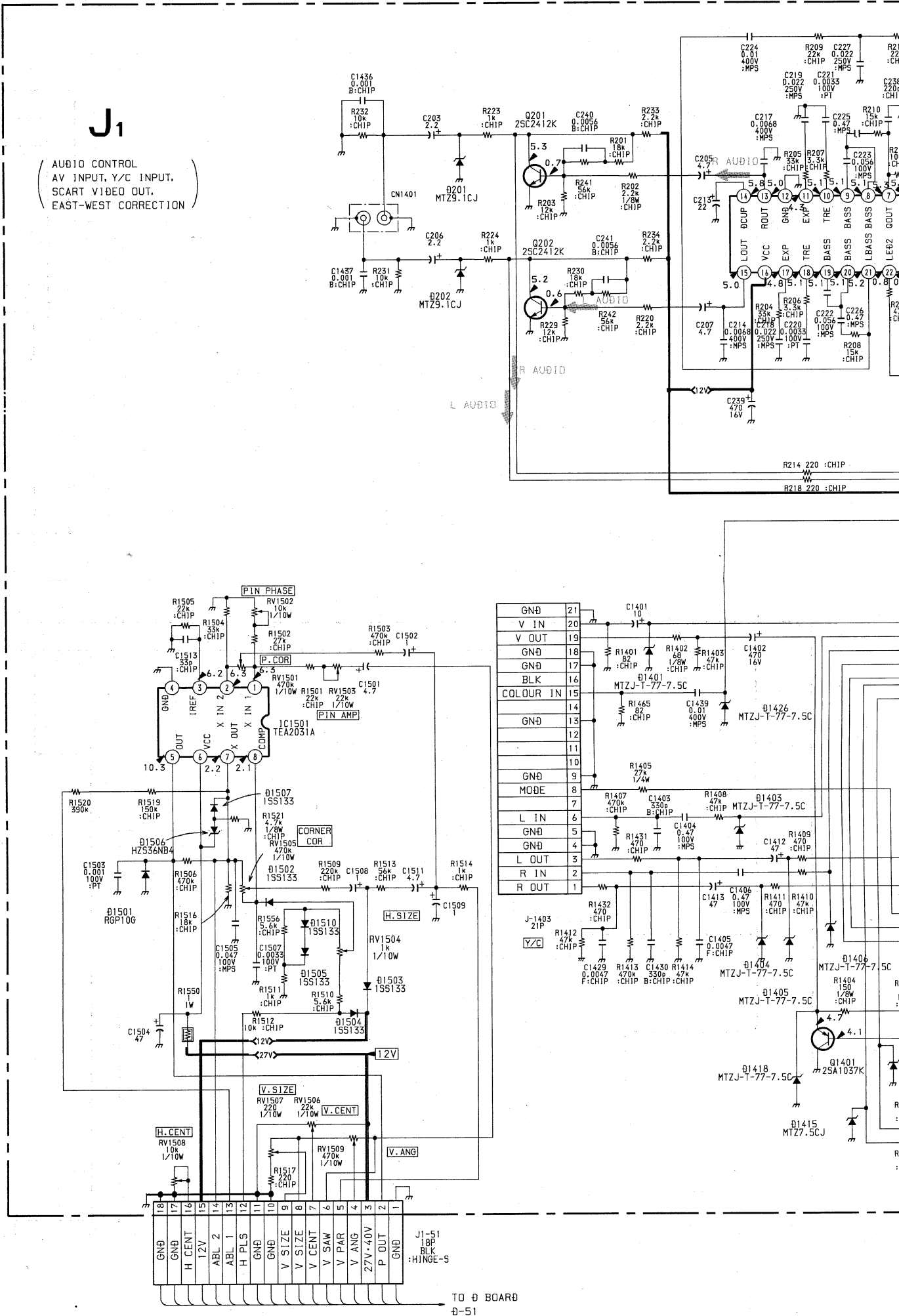
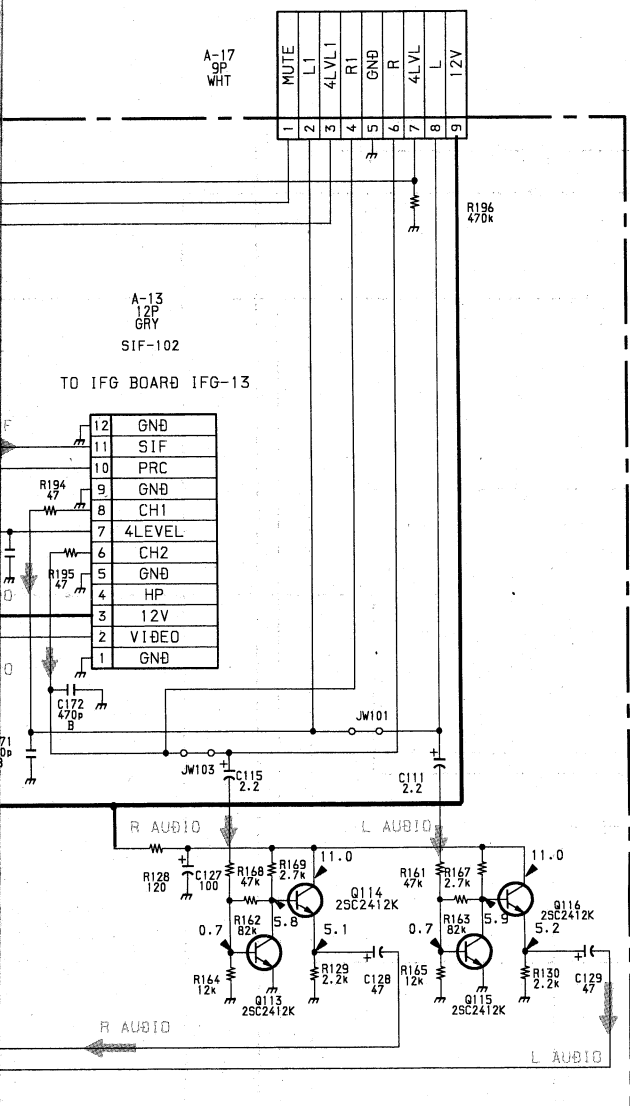


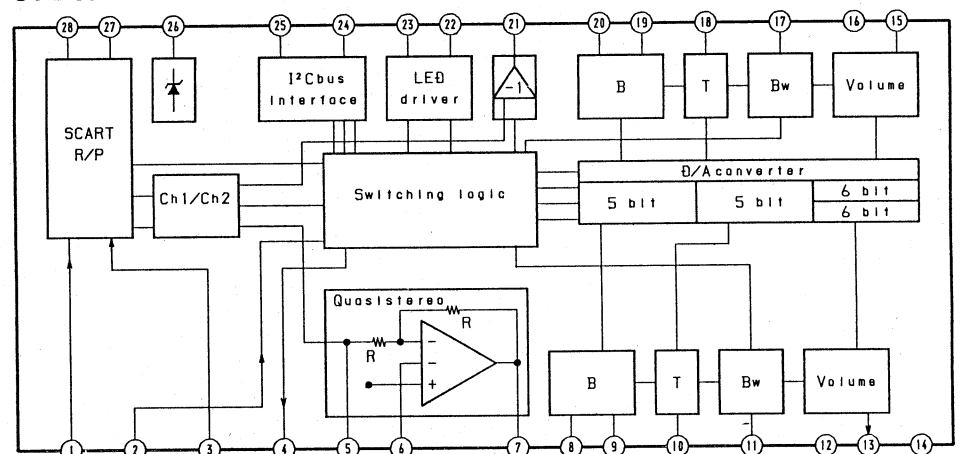
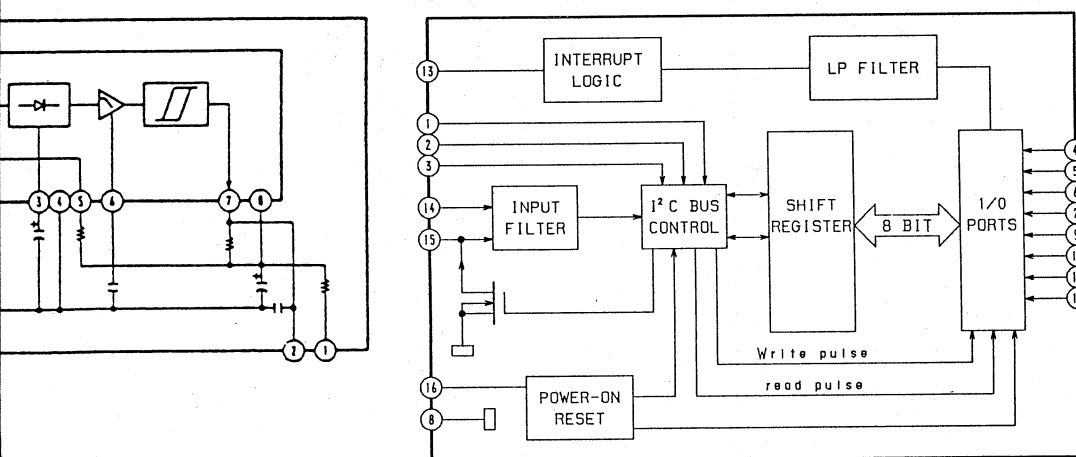
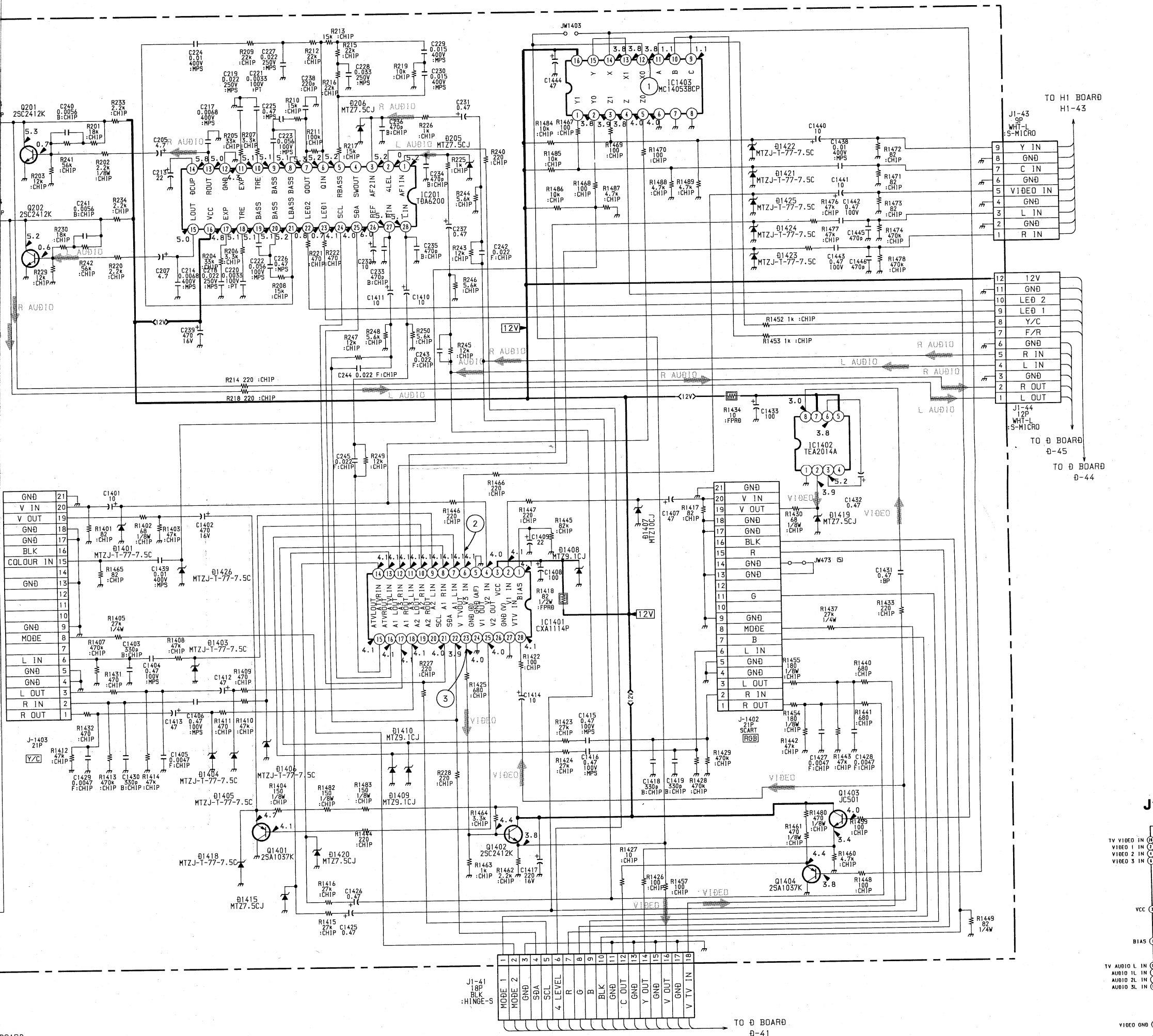
VM Board

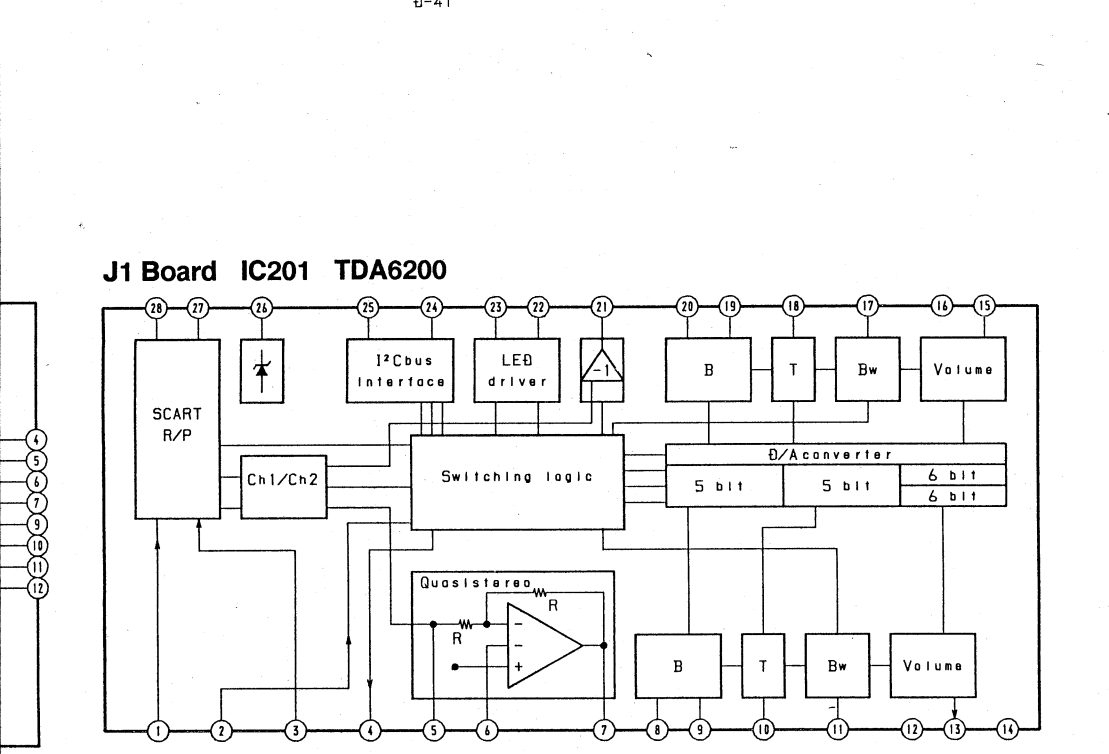
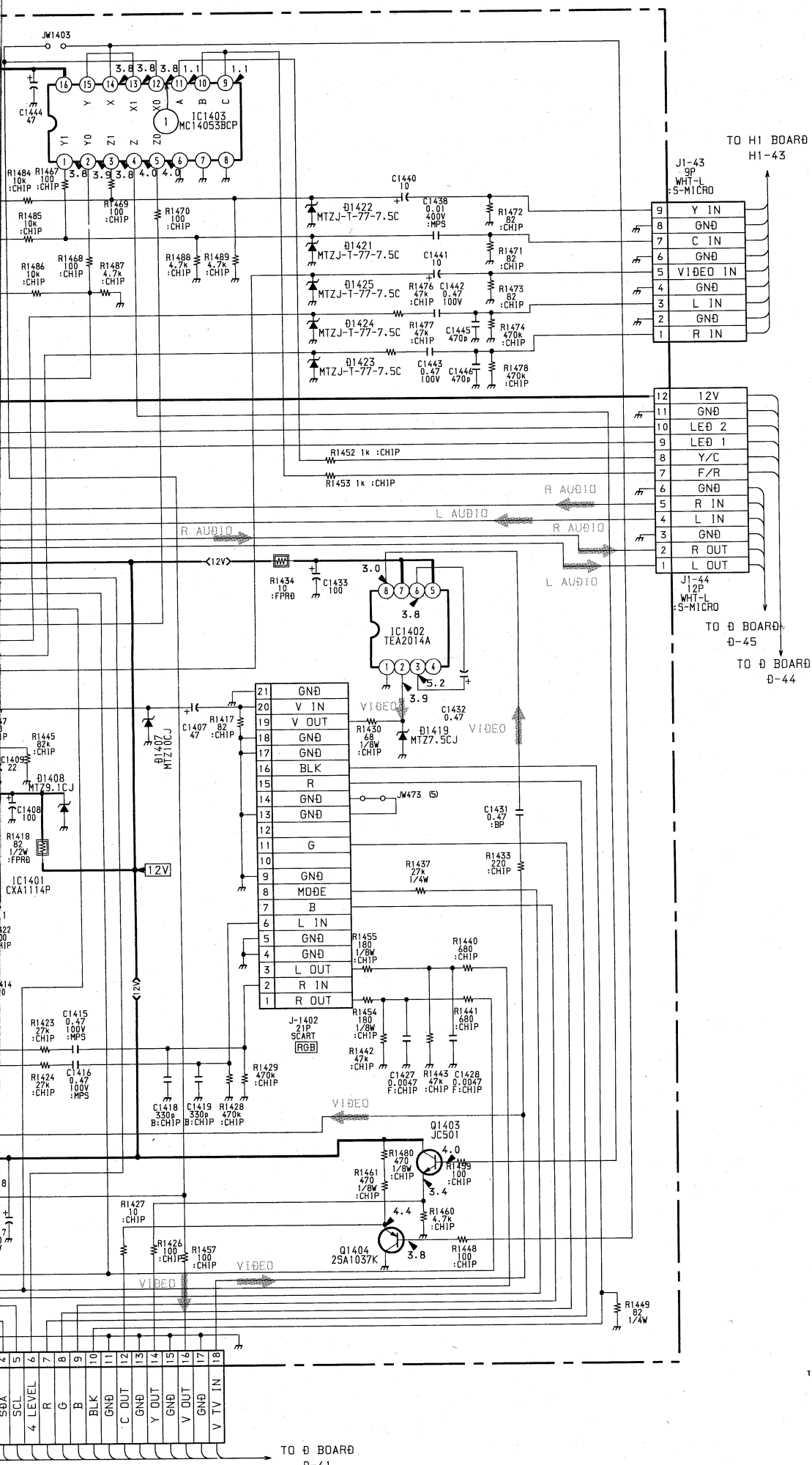
Q751	JC501	REF-AMP
Q752	JC501	REF-AMP
Q753	2SB734	PUSH-PULL OUT
Q754	2SB774	PUSH-PULL OUT

H2 Board

IC1651	SBX1610-11
Q1651	LQ-201VR
Q1652	LQ-201VR
Q1654	LQ-201VR



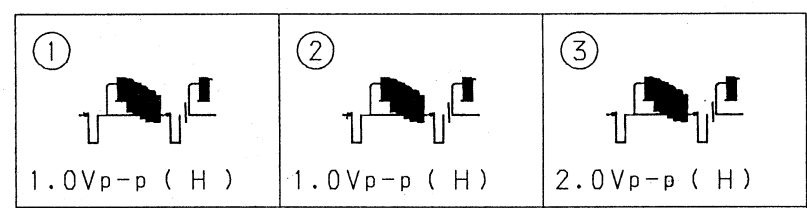




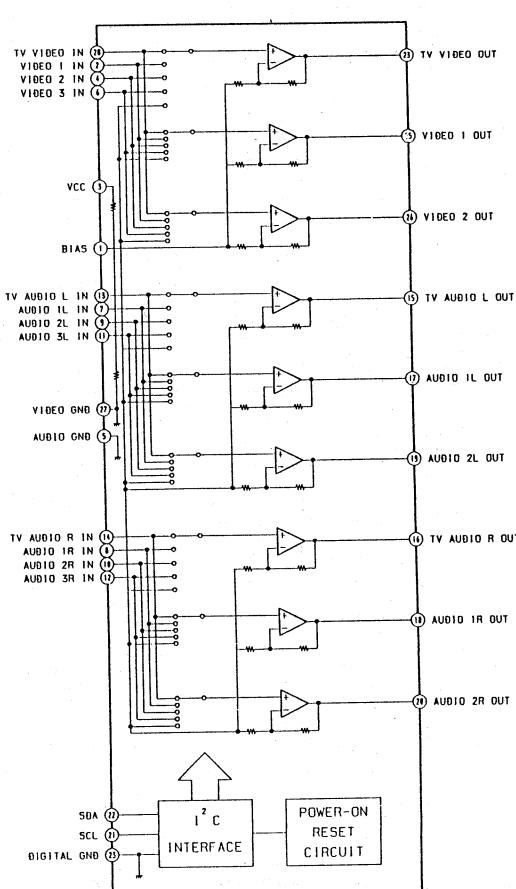
J1 Board

IC201	TDA6200	AUDIO CONTROL
IC1401	CXA1114P	AV SW
IC1402	TEA2014A	SCART VIDEO OUT
IC1403	MC14053BCP	COMPOSITE Y/C SW
IC1501	TEA2031A	EAST-WEST CORRECTION
Q201	2SC2412K	AUDIO R BUFF
Q202	2SC2412K	AUDIO L BUFF
Q1401	2SA1162G	VIDEO OUT
Q1402	2SC2412K	VIDEO OUT BUFF
Q1403	JC501	Y OUT BUFF
Q1404	2SA1037K	C OUT BUFF
D201	MTZ-9.1CJ	PROTECT
D202	MTZ-9.1CJ	PROTECT
D205	MTZ-7.5CJ	PROTECT
D206	MTZ-7.5CJ	PROTECT
D1401	MTZ-7.5CJ	PROTECT
D1403	MTZ-7.5CJ	PROTECT
D1404	MTZ-7.5CJ	PROTECT
D1405	MTZ-7.5CJ	PROTECT
D1406	MTZ-7.5CJ	PROTECT
D1407	MTZ-10CJ	PROTECT
D1408	MTZ-9.1CJ	REG
D1409	MTZ-9.1CJ	PROTECT
D1410	MTZ-9.1CJ	PROTECT
D1415	MTZ-7.5CJ	PROTECT
D1418	MTZ-7.5CJ	PROTECT
D1419	MTZ-7.5CJ	PROTECT
D1420	MTZ-7.5CJ	PROTECT
D1421	MTZ-7.5CJ	PROTECT
D1422	MTZ-7.5CJ	PROTECT
D1423	MTZ-7.5CJ	PROTECT
D1424	MTZ-7.5CJ	PROTECT
D1425	MTZ-7.5CJ	PROTECT
D1426	MTZ-7.5CJ	PROTECT
D1501	RGP10G	PROTECT
D1502	1SS133	DE COUPLING H SIZE
D1503	1SS133	CLIPPING V PARABORA
D1504	1SS133	CLIPPING H PULSE
D1505	1SS133	REG
D1506	HZS36NB4	PROTECT
D1507	1SS133	PROTECT
D1510	1SS133	REG

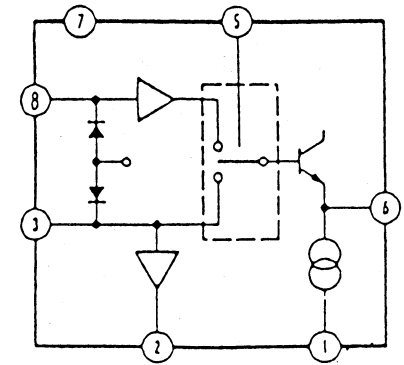
Waveforms J1 Board



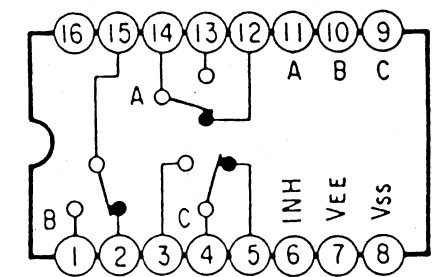
J1 Board IC1401 CXA1114P



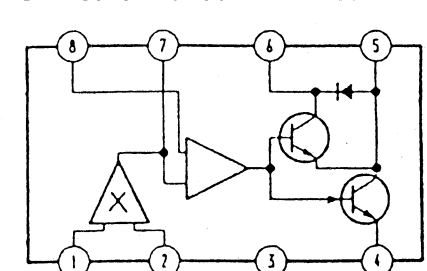
J1 Board IC402 TEA2014A



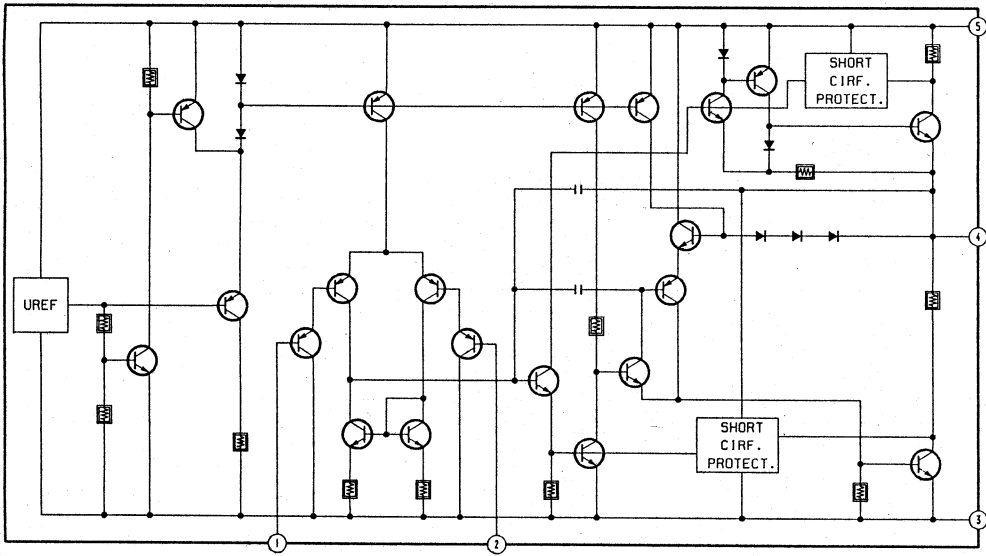
J1 Board IC1403 MC14053BCP



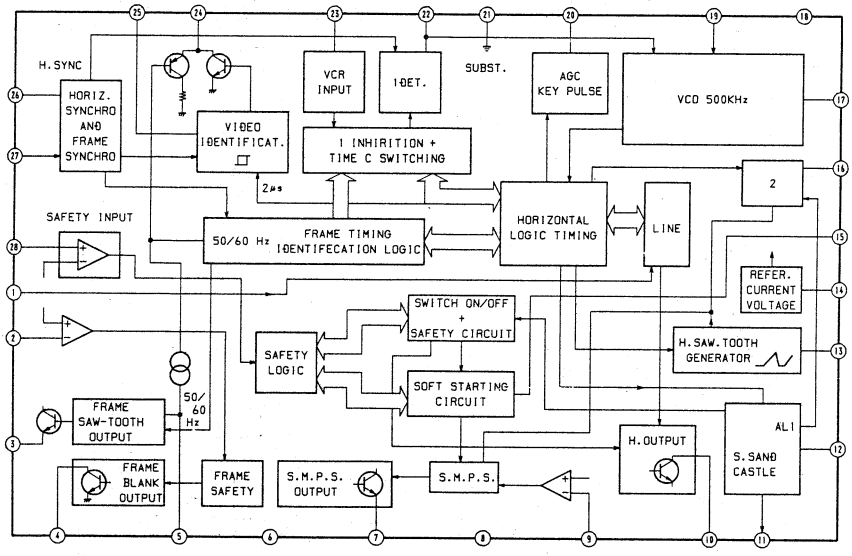
J1 Board IC1501 TEA2031A



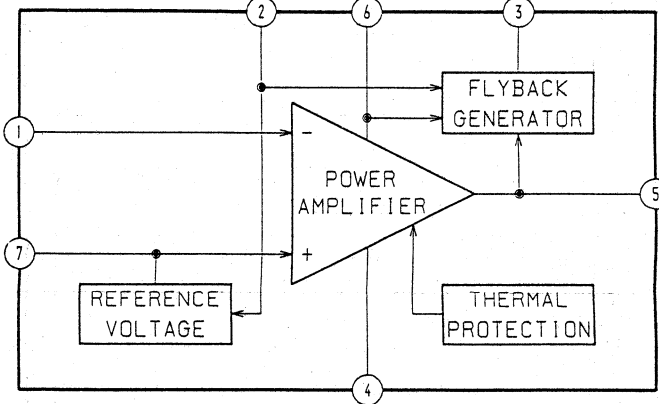
D Board IC251/261TDA2050



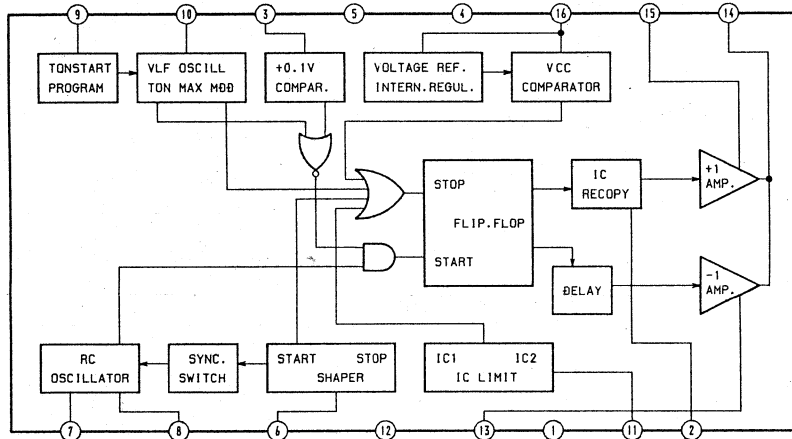
D Board IC501 TEA2028B



D Board IC502 TDA8170



D Board IC601 TEA2260

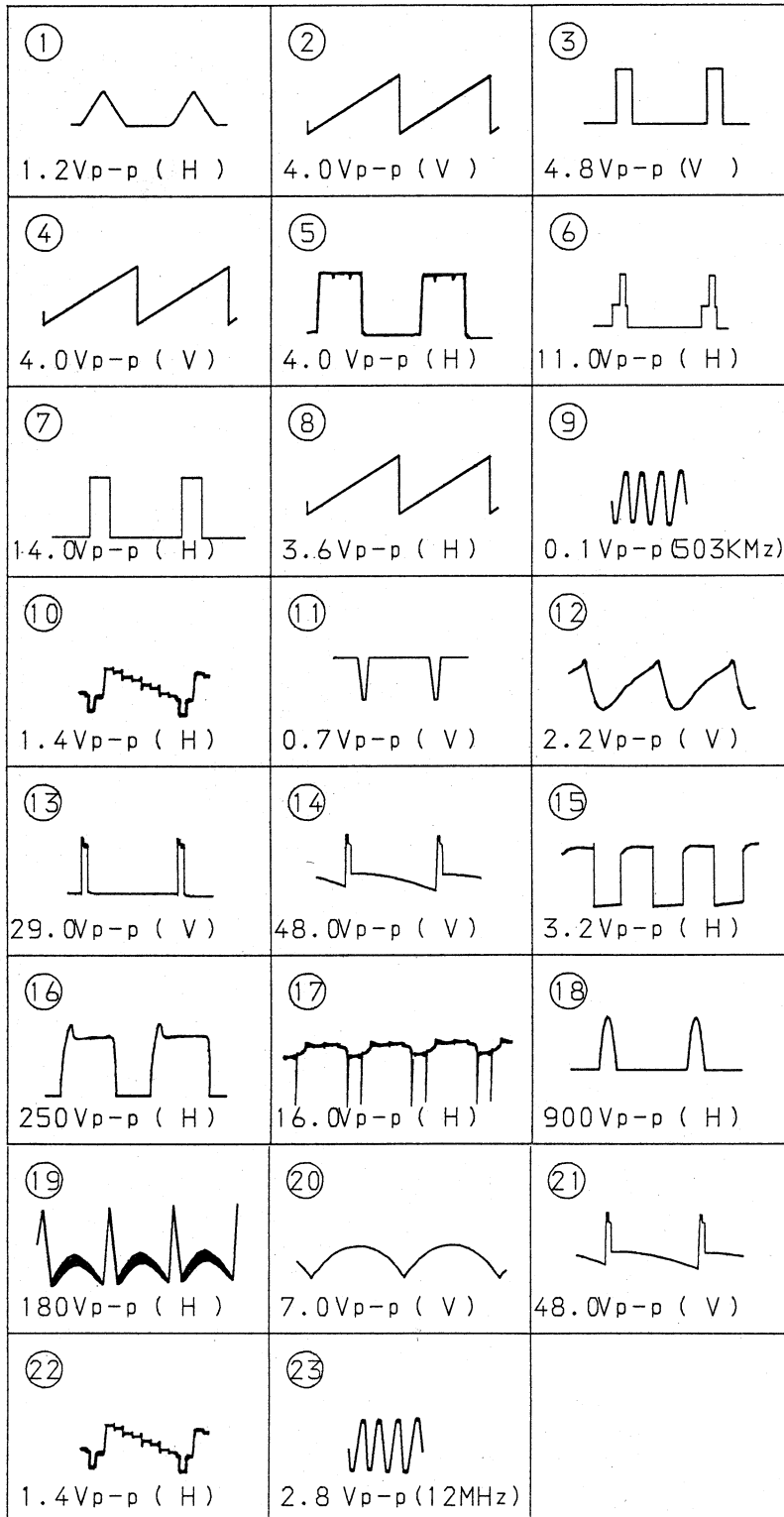


D Board

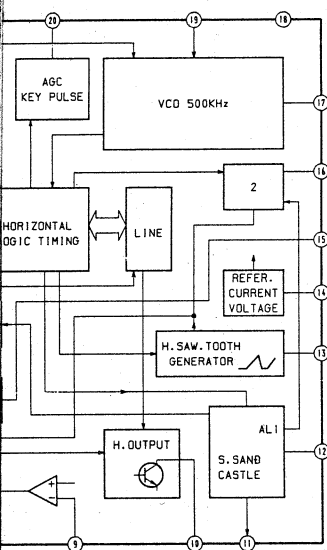
IC001	SBA20560-AEIC	TUNING CTL
IC002	MC14051BCP	ON SCREEN DISPLAY
IC003	BA4558	AFT COMPARATOR
IC005	SBA2546	MY MEMORY
IC251	TDA2050	AUDIO OUT (L)
IC261	TDA2050	AUDIO OUT (R)
IC501	TEA2028B	DEFLECTION PROCESSOR
IC502	TDA8170	V OUT
IC601	TEA2260	PRIMARY SMRS CTL
IC604	TEA7605	+5V REG
IC608	TYA7812CT	+12V REG.

Q001	0TC144EK	50/60Hz SW
Q002	0TA144EK	BLK SW
Q003	2SA1037-K	SYNC SEPARATOR
Q004	2SA1037-K	SYNC SEPARATOR
Q005	0TC144EK	Y/C SW
Q006	0TC144EK	FRONT/REAR SW
Q007	2SC2412-K	MODE 2 SWITCH
Q008	2SC2412-K	MODE 1 SWITCH
Q009	2SC2412-K	MUTE SW
Q010	2SC2412-K	RESET
Q251	2SC2412-K	AUDIO MUTE
Q261	2SC2412-K	AUDIO MUTE
Q271	2SC2412-K	VOLTAGE DETECT
Q502	2SA1037-K	CONSTANT CURRENT SOURCE
Q505	2SB774	V CENT
Q506	2SB734	V CENT
Q507	2SA1037-K	CANAL +BLK
Q598	2SA1037-K	VIDEO AMP
Q601	2SB1357T114EF	STBY SW
Q602	2SD1548	REG OUT
Q603	2SB1357T114EF	STBY SW
Q604	2SA1037-K	FAST ON/OFF
Q605	2SC2412-K	STBY SW
Q606	2SC2412-K	STBY SW
Q607	2SD2096-EF	+12V REG
Q608	2SC2412K	STBY SW
Q609	2SD789-3	STBY SW
Q801	2SC2412-K	ABL AMP
Q804	BU508ASH	H OUT
Q805	2SC2688	H DRIVER

D Board

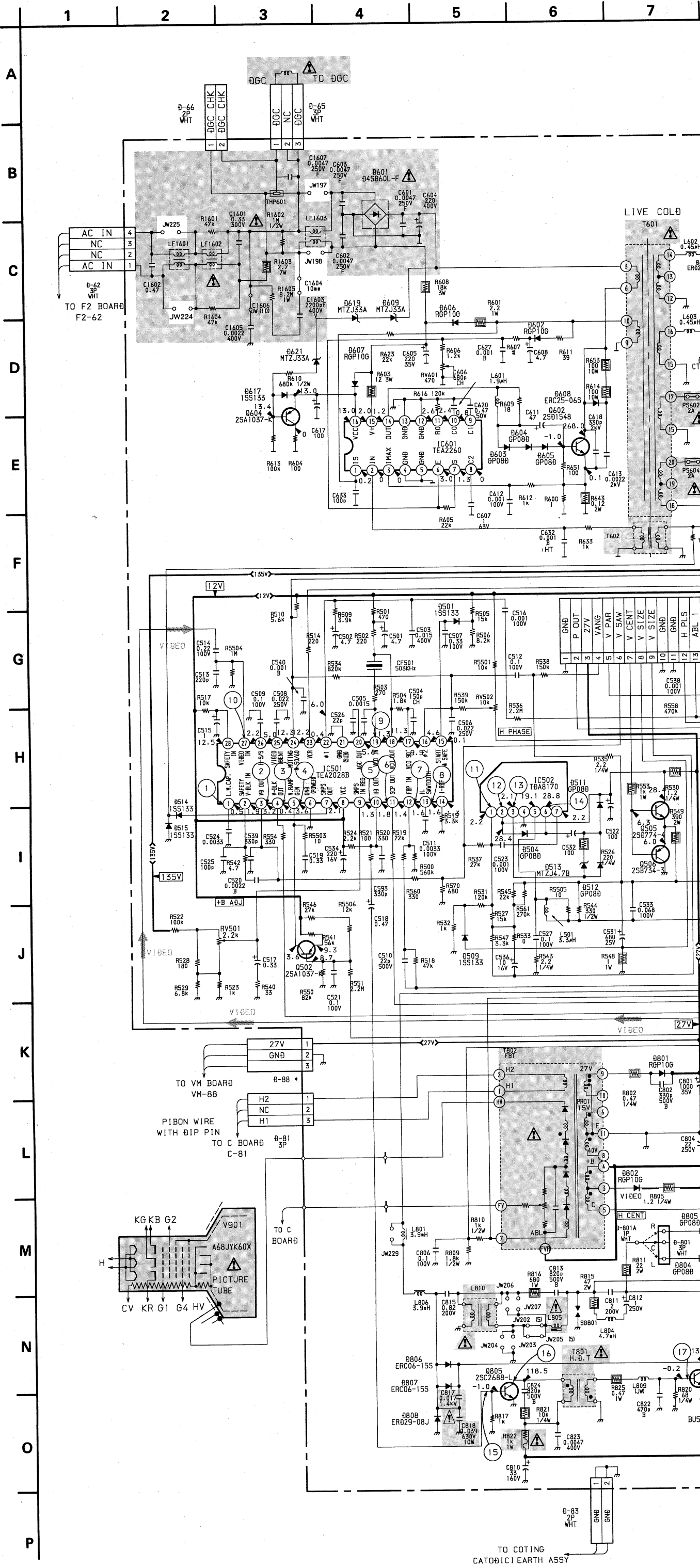


0003	1SS133	HUE CTL
0005	MTZJ5.6B	PROT
0006	MTZJ33A	VC VOLTAGE REGULATION
0007	MTZJ3.9B	PLOT RESET
0009	MTZJ5.6B	CLIPPING SYNC LEVEL
0010	MTZJ6.2B	PROT
0011	MTZJ6.2B	PROT
0012	1SS133	PROT
0013	MTZJ6.8C	PROT
0271	MTZJ13B	VOLTAGE DETECT
0272	1SS133	DECOUPLING MUTE AUDIO
0501	1SS133	START
0504	GP080	V PULSE OUT
0506	0A204K	CURRENT
0508	1SS133	CANAL +BLK LEVEL
0509	1SS133	V LIN
0511	GP080	PROT
0512	GP080	PROT
0513	MTZJ4.7B	PROT
0601	04SB60L-F	AC RECT
0602	RGP10G	REF RECT
0603	GP080	SMPS DRIVE 1
0604	GP080	SMPS DRIVE 2
0605	GP080	SMPS DRIVE 3
0606	RGP10G	+12V RECT
0607	RGP10G	REF RECT
0608	ERC25-06S	PLUSE CLIPPER
0609	MTZJ33A	FAST ON/OFF
0610	CTU-12S	+14V RECT
0611	ER029-08J	+135VRECT
0612	CTU-12S	+7V RECT
0613	RGP15J	AF V RECT-1
0614	RGP15J	AF V RECT-2
0616	MTZJ6.2B	+12V REG
0617	1SS133	PROT
0618	MTZJ5.6B	+12V REF
0619	MTZJ33A	FAST ON/OFF-2
0620	0A204K	+12V REF
0621	MTZJ33A	FAST ON/OFF-3
0622	1SS133	PROT
0623	1SS133	DECOUPLING STBY
0624	1SS133	DECOUPLING STBY
0630	MTZJ15A	+12V RECT
0801	RGP10G	+27V RECT
0802	RGP10G	+200V RECT
0803	RGP02-17	G2 RECT
0804	GP080	H CENTER-1
0805	GP080	H CENTER-2
0806	ERC06-15S	H DAMPER-1
0807	ERC06-15S	H DAMPER-2
0808	ER029-08J	PIN DAMPER

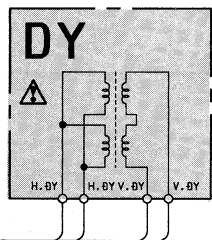


board

001	SDA20560-AEIC	TUNING CTL
002	MC14051BCP	ON SCREEN DISPLAY
003	BA4558	AFT COMPARTOR
005	SDA2546	MY MEMORY
251	TDA2050	AUDIO OUT (L)
261	TDA2050	AUDIO OUT (R)
501	TEA2028B	DEFLECTION PROCESSOR
502	TDA8170	V OUT
601	TEA2260	PRIMARY SMRS CTL
604	TEA7605	+5V REG
608	TYA7812CT	+12V REG
0001	0TC144EK	50/60Hz SW
0002	0TA144EK	BLK SW
0003	2SA1037-K	SYNC SEPARATOR
0004	2SA1037-K	SYNC SEPARATOR
0005	0TC144EK	Y/C SW
0006	0TC144EK	FRONT/REAR SW
0007	2SC2412-K	MODE 2 SWITCH
0008	2SC2412-K	MODE 1 SWITCH
0009	2SC2412-K	MUTE SW
0010	2SC2412-K	RESET
0251	2SC2412-K	AUDIO MUTE
0261	2SC2412-K	AUDIO MUTE
0271	2SC2412-K	VOLTAGE DETECT
0502	2SA1037-K	CONSTANT CURRENT SOURCE
0505	2SD774	V CENT
0506	2SB734	V CENT
0507	2SA1037-K	CANAL +BLK
0598	2SA1037-K	VIDEO AMP
0601	2SB1357T114EF	STBY SW
0602	2SD1548	REG OUT
0603	2SB1357T114EF	STBY SW
0604	2SA1037-K	FAST ON/OFF
0605	2SC2412-K	STBY SW
0606	2SC2412-K	STBY SW
0607	2SD2096-EF	+12V REG
0608	2SC2412K	STBY SW
0609	2SD789-3	STBY SW
0801	2SC2412-K	ABL AMP
0804	BU508ASIH	H OUT
0805	2SC2688	H DRIVER
0003	1SS133	HUE CTL
0005	MTZJ5.6B	PROT
0006	MTZJ33A	VC VOLTAGE REGULATION
0007	MTZJ3.9B	PLOT RESET
0009	MTZJ5.6B	CLIPPING SYNC LEVEL
0010	MTZJ6.2B	PROT
0011	MTZJ6.2B	PROT
0012	1SS133	PROT
0013	MTZJ6.8C	PROT
0271	MTZJ13B	VOLTAGE DETECT
0272	1SS133	DECOUPLING MUTE AUDIO
0501	1SS133	START
0504	GP080	V PULSE OUT
0506	DA204K	CURRENT
0508	1SS133	CANAL +BLK LEVEL
0509	1SS133	V LIN
0511	GP080	PROT
0512	GP080	PROT
0513	MTZJ4.7B	PROT
0601	04SB60L-F	AC RECT
0602	RGP10G	REF RECT
0603	GP080	SMPS DRIVE 1
0604	GP080	SMPS DRIVE 2
0605	GP080	SMPS DRIVE 3
0606	RGP10G	+12V RECT
0607	RGP10G	REF RECT
0608	ERC25-06S	PLUSE CLIPPER
0609	MTZJ33A	FAST ON/OFF
0610	CTU-12S	+14V RECT
0611	ERD29-08J	+13VRECT
0612	CTU-12S	+7V RECT
0613	RGP15J	AF V RECT-1
0614	RGP15J	AF V RECT-2
0616	MTZJ6.2B	+12V REG
0617	1SS133	PROT
0618	MTZJ5.6B	+12V REF
0619	MTZJ33A	FAST ON/OFF-2
0620	DA204K	+12V REF
0621	MTZJ33A	FAST ON/OFF-3
0622	1SS133	PROT
0623	1SS133	DECOUPLING STBY
0624	1SS133	DECOUPLING STBY
0630	MTZJ15A	+12V RECT
0801	RGP10G	+27V RECT
0802	RGP10G	+200V RECT
0803	RGP02-17	G2 RECT
0804	GP080	H CENTER-1
0805	GP080	H CENTER-2
0806	ERC06-15S	H DAMPER-1
0807	ERC06-15S	H DAMPER-2
0808	ERD29-08J	PIN DAMPER



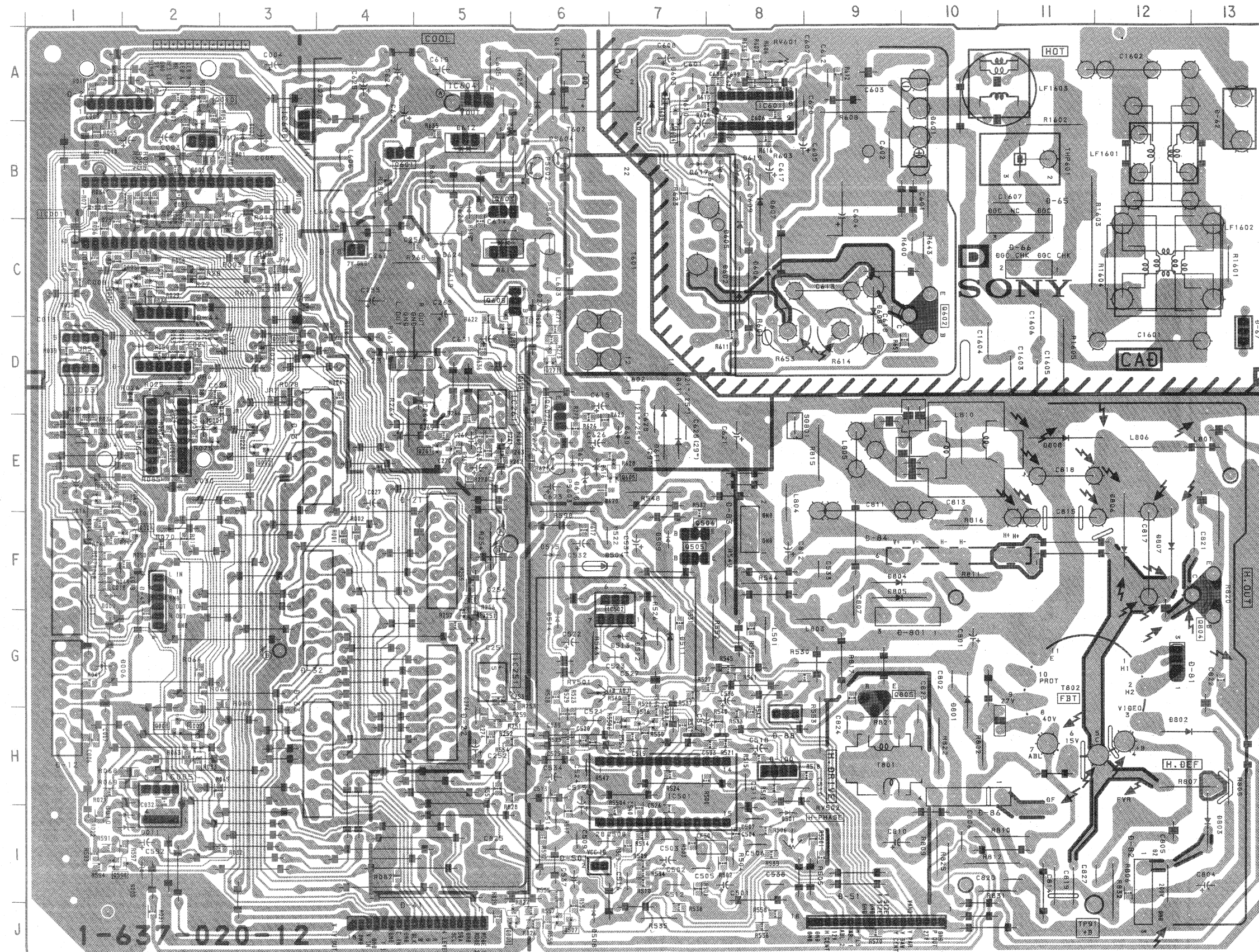




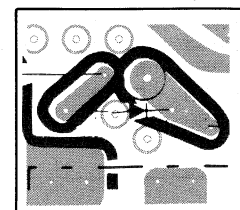
D

TUNING CONTROL POWER CONTROL
AUDIO OUT H/V OUT

- D Board -



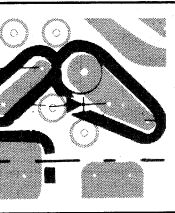
IC		D013	E-2
IC001	B-2	D271	C-6
IC002	E-2	D272	E-6
IC003	D-1	D501	I-8
IC005	H-2	D504	F-6
IC251	G-5	D508	J-6
IC261	D-5	D509	F-7
IC501	H-7	D511	G-7
IC502	G-7	D512	G-7
IC601	A-8	D513	G-7
IC604	A-5	D514	G-6
IC608	B-3	D515	F-6
TRANSISTOR		D601	B-10
Q001	E-2	D602	C-8
Q002	E-3	D603	A-7
Q003	E-1	D604	A-7
Q004	F-2	D605	C-8
Q005	C-2	D606	C-8
Q006	C-1	D607	B-8
Q007	H-2	D608	C-9
Q008	H-2	D609	B-8
Q009	D-3	D610	C-5
Q010	A-2	D611	E-7
Q251	G-5	D612	B-5
Q261	E-5	D613	A-6
Q271	D-6	D614	A-6
Q502	H-7	D616	E-6
Q505	F-7	D617	B-7
Q506	F-7	D618	E-6
Q507	J-6	D619	B-8
Q598	I-2	D620	E-6
Q601	B-4	D621	B-8
Q602	C-10	D622	E-6
Q603	B-5	D623	B-5
Q604	A-7	D624	C-5
Q605	E-7	D630	E-7
Q606	D-5	D801	G-10
Q607	D-6	D802	H-12
Q608	D-6	D803	I-13
Q609	C-5	D804	F-9
Q801	J-6	D805	F-9
Q804	G-13	D806	F-12
Q805	G-9	D807	F-12
		D808	E-11
		TP	
DIODE		TP91	J-11
D003	B-3	(+ B)	
D005	I-2	VARIABLE RESISTOR	
D006	G-1		
D007	B-2	RV501	G-6
D009	F-1	RV502	I-8
D010	I-2	RV601	A-8
D011	I-2		
D012	D-2		



NOTE:

The circuit indicates
600 Vp-p. Care must be
taken in inspection or repair.

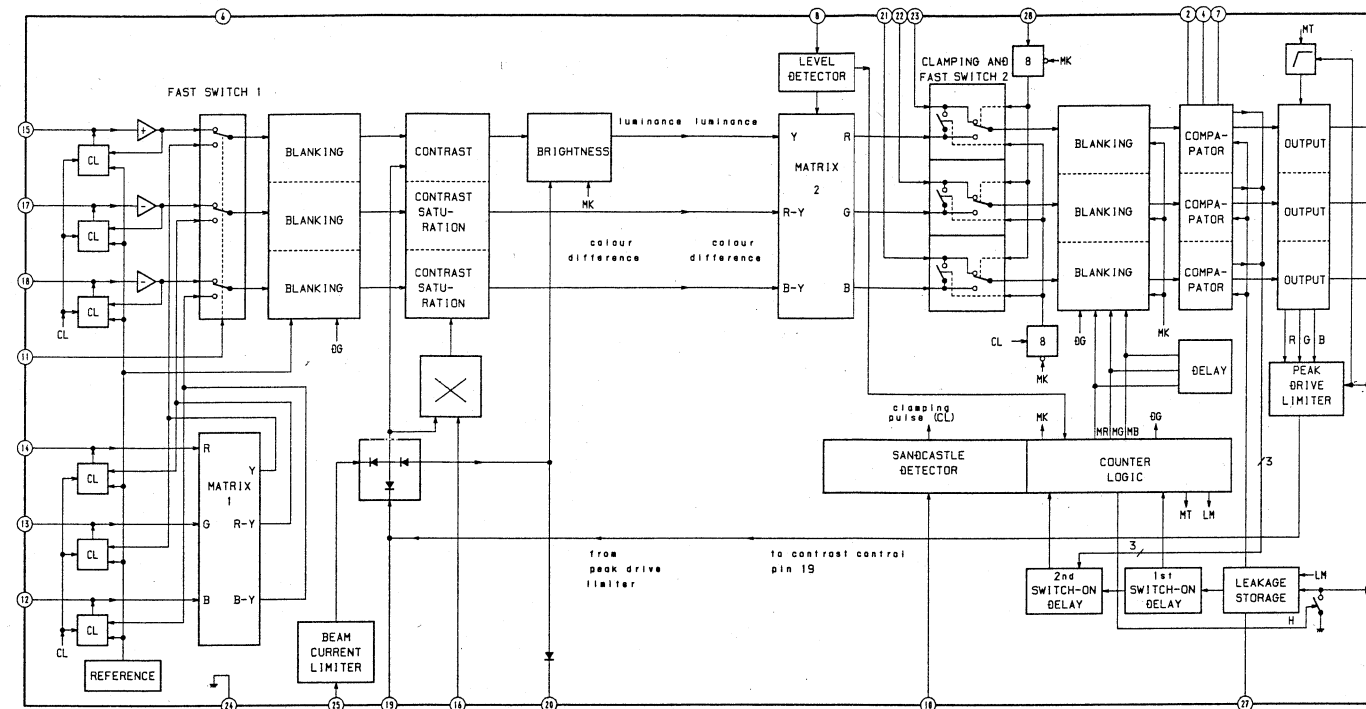
IC		D013	E - 2
001	B - 2	D271	C - 6
	E - 2	D272	E - 6
	D - 1	D501	I - 8
	H - 2	D504	F - 6
	G - 5	D508	J - 6
	D - 5	D509	F - 7
	H - 7	D511	G - 7
	G - 7	D512	G - 7
	A - 8	D513	G - 7
	A - 5	D514	G - 6
TRANSISTOR	B - 3	D515	F - 6
	E - 2	D601	B - 10
	E - 3	D602	C - 8
	E - 1	D603	A - 7
	F - 2	D604	A - 7
	C - 2	D605	C - 8
	C - 1	D606	C - 8
	H - 2	D607	B - 8
	H - 2	D608	C - 9
	D - 3	D609	B - 8
DIODE	A - 2	D610	C - 5
	G - 5	D611	E - 7
	E - 5	D612	B - 5
	D - 6	D613	A - 6
	H - 7	D614	A - 6
	F - 7	D616	E - 6
	F - 7	D617	B - 7
	J - 6	D618	E - 6
	I - 2	D619	B - 8
	B - 4	D620	E - 6
VARIABLE RESISTOR	C - 10	D621	B - 8
	B - 5	D622	E - 6
	A - 7	D623	B - 5
	E - 7	D624	C - 5
	D - 5	D630	E - 7
	D - 6	D801	G - 10
	D - 6	D802	H - 12
	C - 5	D803	I - 13
	J - 6	D804	F - 9
	G - 13	D805	F - 9
TP	G - 9	D806	F - 12
		D807	F - 12
		D808	E - 11
RV	B - 3	TP91	J - 11
	I - 2	(+ B)	
	G - 1		
	B - 2		
	F - 1		
	I - 2		
	I - 2		
	D - 2		



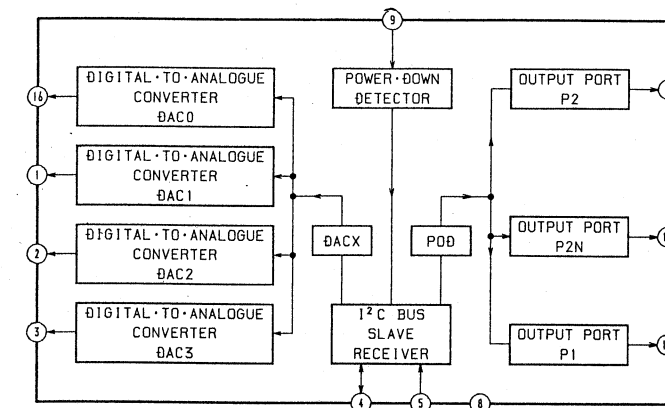
NOTE:

The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

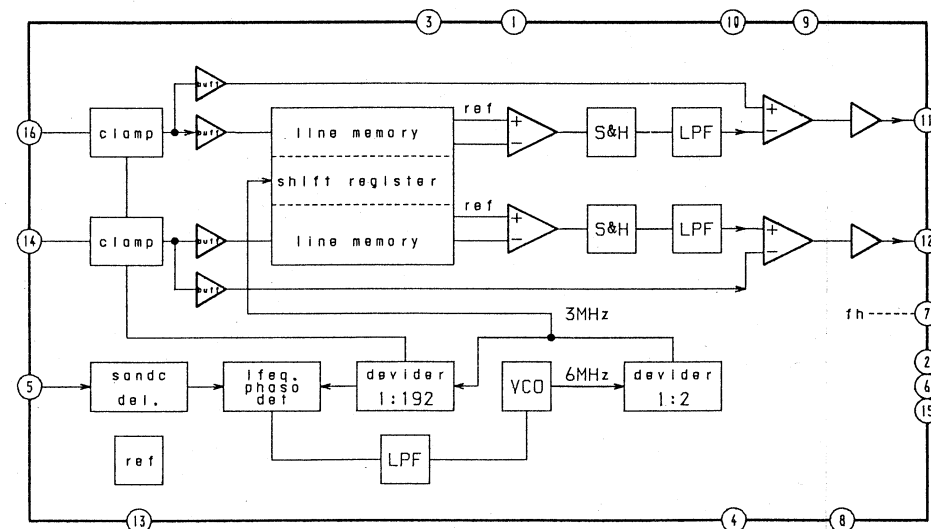
B1 Board IC301 TDA4580-V4



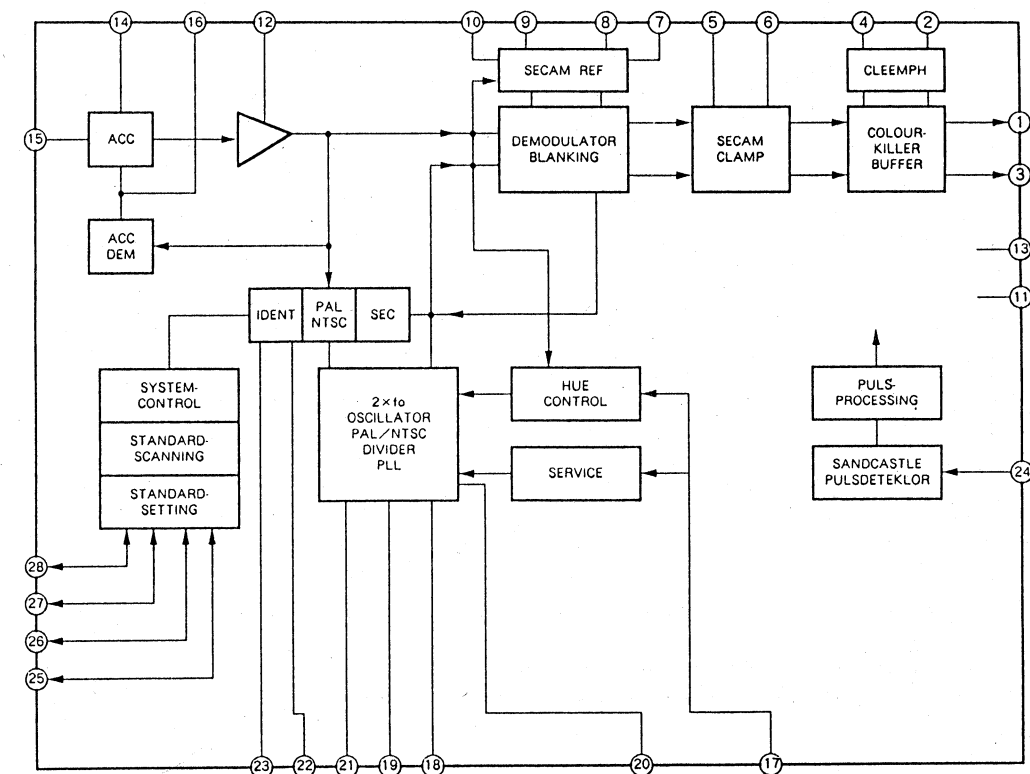
B1 Board IC302 TDA8442-N3



B BOARD IC303 TDA4660



B1 Board IC304 TDA4650WP



IC	
IC301	E-6
IC302	D-5
IC303	C-6
IC304	C-7
IC305	B-6
IC306	E-8
IC308	E-7
IC310	A-6
IC311	A-5
IC312	A-7
IC313	A-6
IC315	A-7

TRANSISTOR	
Q301	E-3
Q302	E-3
Q303	E-3
Q304	F-3
Q305	D-4
Q306	F-2
Q307	F-3
Q308	E-3
Q310	C-1
Q311	C-1
Q320	C-2
Q321	B-2
Q322	B-3
Q323	C-3
Q324	C-2
Q327	E-1
Q328	E-1
Q329	E-1
Q330	E-1
Q331	E-1
Q332	E-1
Q333	E-2
Q334	D-2
Q335	D-1
Q336	C-1
Q337	C-2
Q338	D-1
Q339	D-2
Q340	D-2
Q341	D-1
Q342	D-2
Q343	E-1
Q344	D-1
Q345	D-1
Q346	D-2
Q347	E-1
Q348	D-2
Q350	B-3
Q352	B-1
Q353	A-1
Q354	B-1
Q355	B-2
Q356	B-1
Q357	B-1

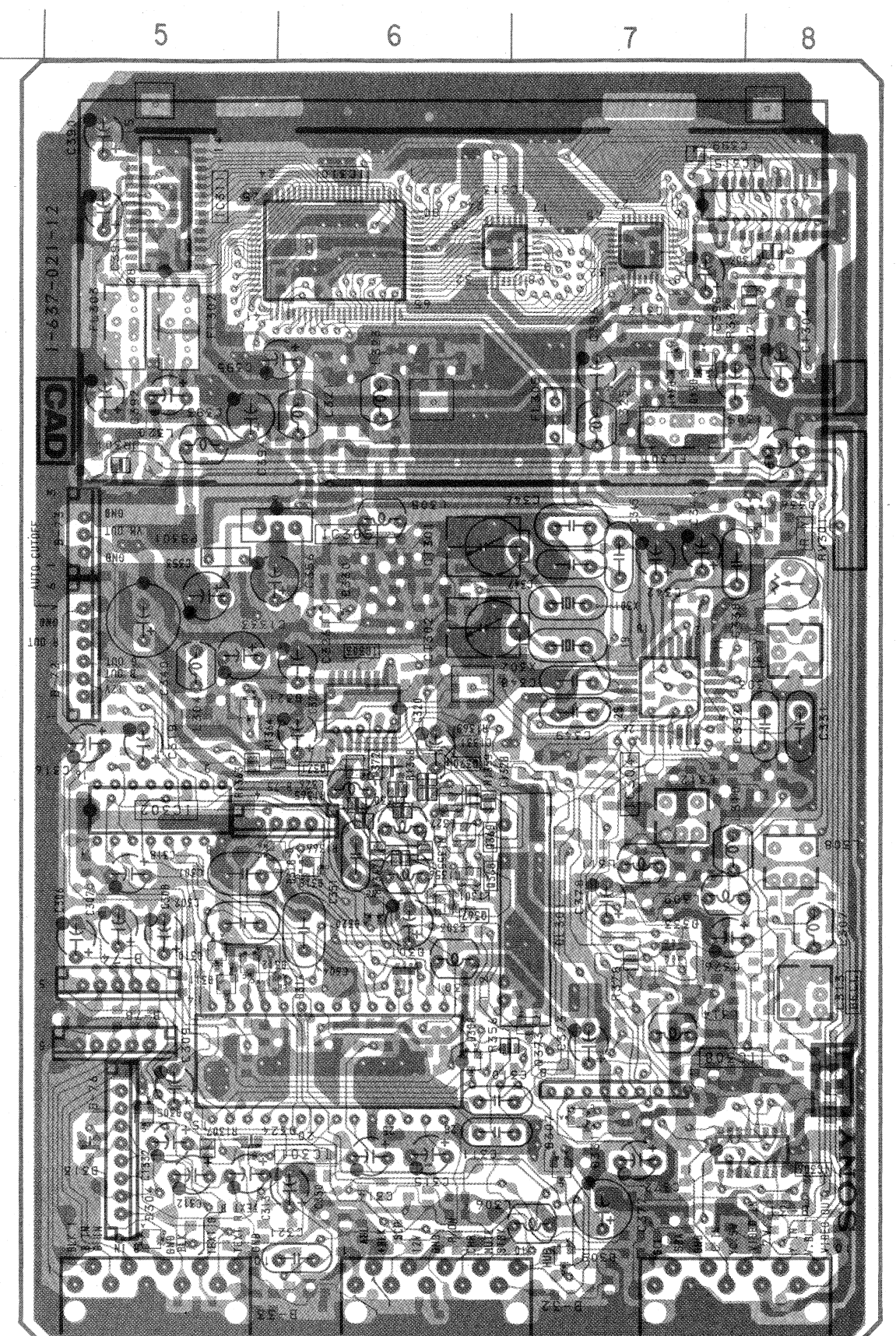
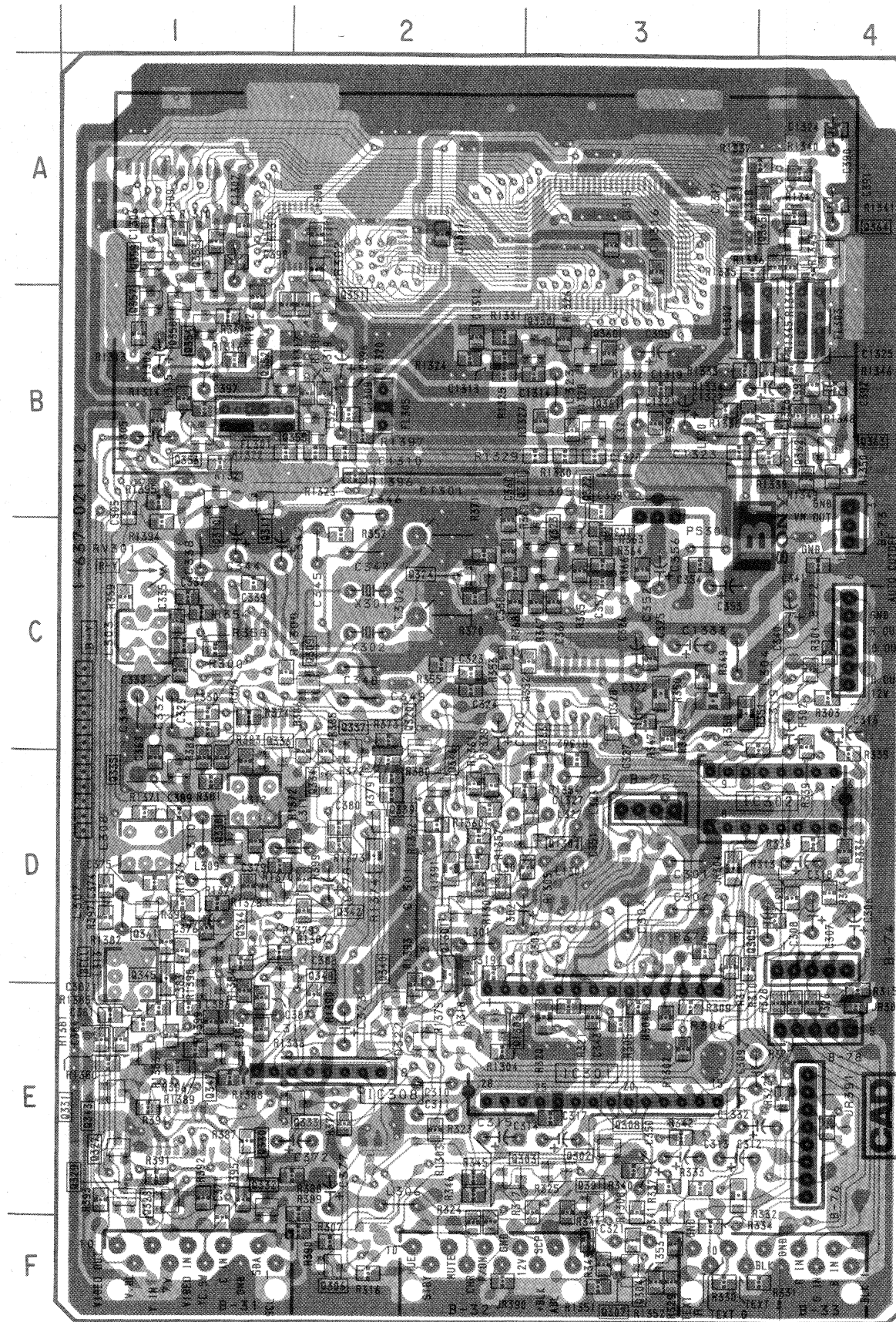
B1

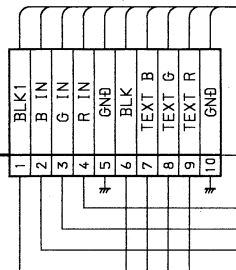
VIDEO PROCESSOR, COLOR PROCESSOR
Y/C SW, D/A CONVERTER, MEMORY,
A/D CONVERTER

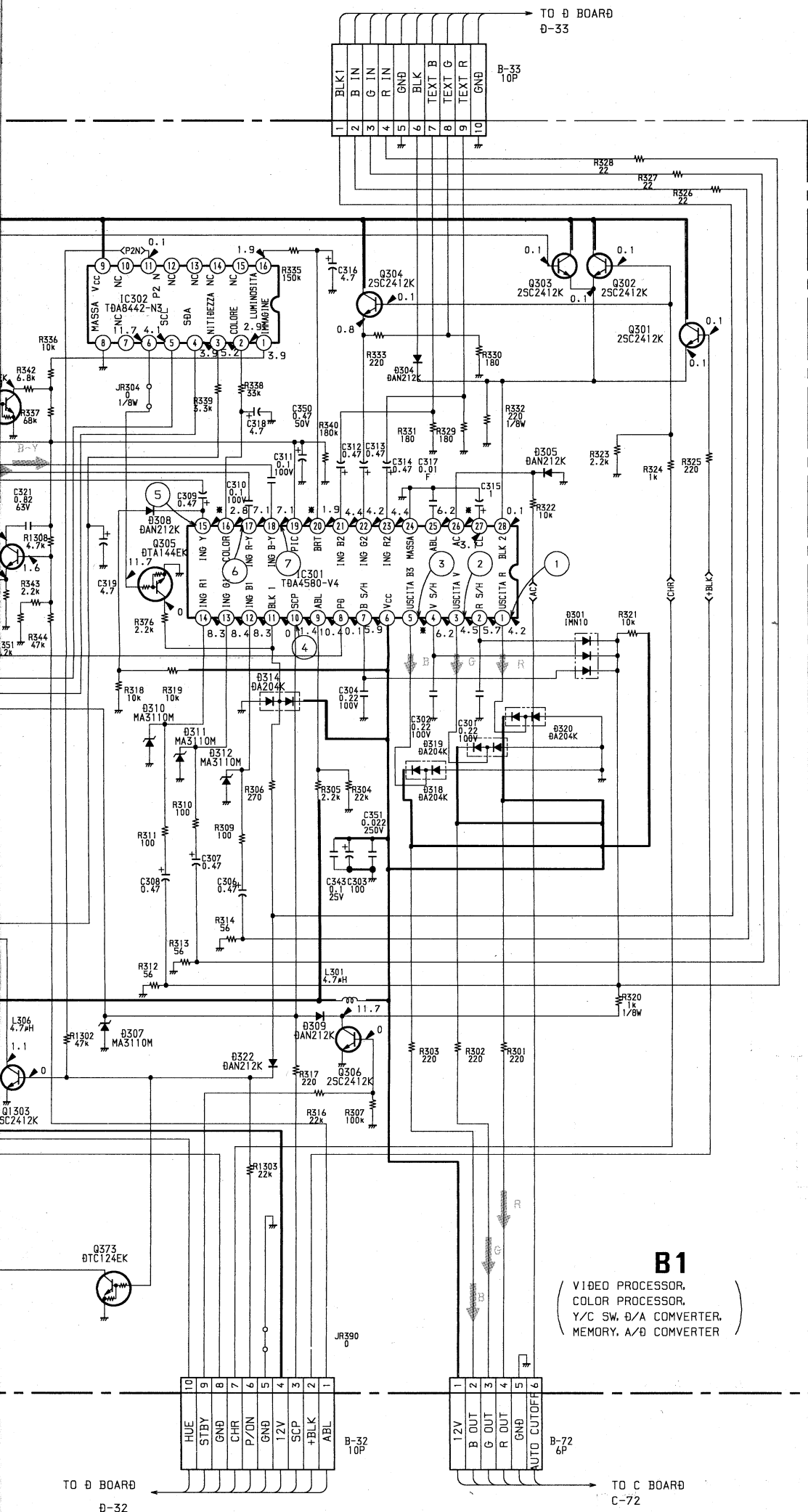
- B1 Board -

- : pattern from the side which enables seeing.
- : pattern of the rear side.

IC		Q360	B-3
IC301	E-6	Q361	B-3
IC302	D-5	Q362	B-4
IC303	C-6	Q363	B-4
IC304	C-7	Q364	A-4
IC305	B-6	Q365	A-4
IC306	E-8	Q366	C-3
IC308	E-7	Q367	D-6
IC310	A-6	Q368	D-6
IC311	A-5	Q369	D-6
IC312	A-7	Q370	D-6
IC313	A-6	Q371	D-6
IC315	A-7	Q372	D-6
TRANSISTOR		Q373	E-6
		Q1301	D-2
		Q1302	D-3
		Q1303	E-2
		DIODE	
Q301	E-3	D301	D-6
Q302	E-3	D304	E-5
Q303	E-3	D305	E-5
Q304	F-3	D307	E-7
Q305	D-4	D308	E-6
Q306	F-2	D309	F-7
Q307	F-3	D310	D-5
Q308	E-3	D311	D-5
Q310	C-1	D312	D-5
Q311	C-1	D314	D-6
Q320	C-2	D318	D-6
Q321	B-2	D319	D-6
Q322	B-3	D320	D-6
Q323	C-3	D321	C-6
Q324	C-2	D322	E-2
Q327	E-1	D330	C-6
Q328	E-1	D331	E-7
Q329	E-1	D333	D-7
Q330	E-1	D336	B-8
Q331	E-1	D340	B-7
Q332	E-1	D341	B-7
Q333	E-2	VARIABLE RESISTOR	
Q334	D-2		
Q335	D-1		
Q336	C-1	RV301 C-8	
Q337	C-2		
Q338	D-1		
Q339	D-2	TRMMER	
Q340	D-2		
Q341	D-1		
Q342	D-2	CT301 C-6 CT302 C-6	
Q343	E-1		
Q344	D-1		
Q345	D-1	COIL	
Q346	D-2		
Q347	E-1		
Q348	D-2	L303	C-8
Q350	B-3	L308	D-8
Q352	B-1	L312	D-7
Q353	A-1	L313	D-8
Q354	B-1		
Q355	B-2		
Q356	B-1		
Q357	B-1		







As to the voltage value shown by the mark ※ on the Schematic Diagram, see the another list.

B1 Board

IC301	TDA4580-V4	VIDEO PROCESSOR
IC302	TDA442-N3	D/A CONVERTER
IC303	TDA4660T	1H DELAY
IC304	TDA4650WP	COLOR PROCESSOR
IC305	APC24M05HF	REGULATOR
IC306	HCF4052BM1	Y/C SW
IC308	CX20061	Y INTERRUPT
IC310	CX2011Q	COMB CONTROL
IC311	MB40969PF	D/A CONVERTER
IC312	CXK1202Q	MEMORY
IC313	CXK1202Q	MEMORY
IC315	CX201175AM	A/D CONVERTER
Q301	25C2412K	CANAL +BLK
Q302	25C2412K	ON SCREEN DISPLAY SW
Q303	25C2412K	FAS SCREEN MUTE SW
Q304	25C2412K	ON SCREEN DISPLAY SW
Q305	DTA144EK	ANIT PRIORITY SCART
Q306	25C2412K	STBY SW
Q307	25C2412K	ABL
Q308	DTIC124EK	MUTE
Q310	DTIC124EK	SECAM SW
Q311	DTIC124EK	SECAM SW
Q320	25C2412K	HUE BUFFER
Q321	25A1037K	CLK AMP3
Q322	25A1037K	CLK AMP2
Q323	25C2412K	CLK AMP1
Q324	25C2412K	CLK BUFFER
Q327	25A1037K	Y OUT
Q328	25A1037K	VIDEO IN
Q329	25A1037K	Y IN
Q330	25C2412K	VIDEO BUFFER
Q331	25A1037K	C OUT
Q332	25A1037K	C IN
Q333	DTIC124EK	Y/C SW
Q334	DTIC124EK	Y SW
Q335	25C2412K	SECAM SW
Q336	25C2412K	NTSC (3.58) SW
Q337	25C2412K	NTSC (4.43) SW
Q338	25A1037K	Y BUFFER
Q339	25C2412K	Y BUFFER
Q340	25C2412K	Y BUFFER
Q341	25C2412K	SECAM TRAP SW
Q342	25C2412K	NTSC TRAP SW
Q343	25C2412K	C OUT
Q344	25C2412K	SECAM SW
Q345	25C2412K	PAL/SECAM SW
Q346	25C2412K	Y IN
Q347	25C2412K	PAL SW
Q348	DTIC124EK	NTSC (3.58) SW
Q350	25A1037KQR	CLK AMP
Q352	25C2412K	VIDEO AMP
Q353	25A1037KQR	BUFFER
Q354	25A1037KQR	BUFFER
Q355	25A1037KQR	VIDEO AMP
Q356	25C2412K	VIDEO BUFFER
Q357	25C2412K	CLAMP BIAS
Q358	25A1037KQR	VIDEO CLAMP
Q359	25C2412K	CLAMP BIAS
Q360	25A1037KQR	CLK BUFFER
Q361	25A1037KQR	CLK AMP
Q362	25A1037KQR	Y BUFFER
Q363	25A1037KQR	C BUFFER
Q364	25A1162	C BUFFER
Q365	25A1162	Y BUFFER
Q366	25C2412K	SHP BUFFER
Q367	25C2412K	Y BUFFER
Q368	25C2412K	SHP AMP
Q369	25C2412K	SHP AMP
Q370	25C2412K	SHP AMP
Q371	25C2412K	VM BUFFER
Q372	25C2412K	VM AMP
Q373	DTIC124EK	SYSTEM SW
Q1301	DTIC124EK	Y BUFFER
Q1302	25C2412K	Y BUFFER
Q1303	25C2412K	VM MUTE
D301	1MN10	ACD AT STBY
D304	DAN212K	PROTECT
D305	DAN212K	PROTECT
D307	MA3110M	PROTECT
D308	DAN212K	PROTECT
D309	DAN212K	PROTECT
D310	MA3110M	PROTECT
D311	MA3110M	PROTECT
D312	MA3110M	PROTECT
D314	DA204K	PROTECT
D318	DA204K	PROTECT
D319	DA204K	PROTECT
D320	DA204K	PROTECT
D321	MA3056	REG
D322	DAN212K	PROTECT
D330	DAN212K	BIAS
D331	DAP202K	Y/C SW
D333	1MN10	SYSTEM SW
D336	DAN204K	CORRECT SW
D340	DA204K	VIDEO AMP
D341	DAN212K	VIDEO AMP

B1 Board

IC·NO	PIN·NO	PAL	SECAM	NTSC 3.38	NTSC 4.43
IC301	(5)	5.1	4.8	4.8	4.8
	(15)	7.3	7.0	7.0	7.0
	(19)	3.1	3.4	3.8	3.4
	(24)	6.6	6.6	6.0	6.3
IC304	(3)	6.8	6.8	6.9	6.8
	(5)	9.9	10.1	9.9	9.9
	(7)	4.3	3.5	4.6	4.6
	(8)	3.4	3.0	3.4	3.4
	(9)	3.4	3.0	3.4	3.4
	(10)	4.3	3.4	4.6	4.6
	(21)	2.3	3.1	3.1	2.3
	(22)	5.6	5.6	5.6	7.4
	(23)	7.5	7.5	5.7	5.7
	(25)	0	1.4	5.9	5.9
	(26)	0	0	0	0
	(27)	0	5.9	0	0
	(28)	5.9	0	0	0

Q·NO	PAL
Q338	B 2.6
	E 3.3
Q339	B 3.2
	E 3.6
Q341	B 0
	C 11.8
Q342	B 0
	C 11.7
Q343	B 3.2
	E 2.6
Q344	B 0
	E 4.0
Q345	B 4.6
	E 4.0
Q347	B 0.6
	C 0.1
Q348	B 0.1
	C 0.4

B1 Board

IC301	TDA4580-V4	VIDEO PROCESSOR
IC302	TDA8442-N3	D/A CONVERTER
IC303	TDA4660T	1H DELAY
IC304	TDA4650WP	COLOR PROCESSOR
IC305	APC24M05HF	REGULATOR
IC306	HCF4052BM1	Y/C SW
IC308	CX20061	Y INTERRUPT
IC310	CX02011Q	COMB CONTROL
IC311	MB40968PF	D/A CONVERTER
IC312	CXK1202Q	MEMORY
IC313	CXK1202Q	MEMORY
IC315	CX01175AM	A/D CONVERTER
Q301	25C2412K	CANAL +BLK
Q302	25C2412K	ON SCREEN DISPLAY SW
Q303	25C2412K	FAS PICTURE MUTE SW
Q304	25C2412K	ON SCREEN DISPLAY SW
Q305	0TA144EK	ANIT PRIORITY SCART
Q306	25C2412K	STBY SW
Q307	25C2412K	ABL
Q308	0TC124EK	MUTE
Q310	0TC124EK	SECAM SW
Q311	0TC124EK	SECAM SW
Q320	25C2412K	HUE BUFFER
Q321	2SA1037K	CLK AMP3
Q322	2SA1037K	CLK AMP2
Q323	25C2412K	CLK AMP1
Q324	25C2412K	CLK BUFFER
Q327	2SA1037K	Y OUT
Q328	2SA1037K	VIDEO IN
Q329	2SA1037K	Y IN
Q330	25C2412K	VIDEO BUFFER
Q331	2SA1037K	C OUT
Q332	2SA1037K	C IN
Q333	0TC124EK	Y/C SW
Q334	0TC124EK	Y SW
Q335	25C2412K	SECAM SW
Q336	25C2412K	NTSC (3.58) SW
Q337	25C2412K	NTSC (4.43) SW
Q338	2SA1037K	Y BUFFER
Q339	25C2412K	Y BUFFER
Q340	25C2412K	Y BUFFER
Q341	25C2412K	SECAM TRAP SW
Q342	25C2412K	NTSC TRAP SW
Q343	25C2412K	C OUT
Q344	25C2412K	SECAM SW
Q345	25C2412K	PAL/SECAM SW
Q346	25C2412K	Y IN
Q347	25C2412K	PAL SW
Q348	0TC124EK	NTSC (3.58) SW
Q350	2SA1037KQR	CLK AMP
Q352	25C2412K	VIDEO AMP
Q353	2SA1037KQR	BUFFER
Q354	2SA1037KQR	BUFFER
Q355	2SA1037KQR	VIDEO AMP
Q356	25C2412K	VIDEO BUFFER
Q357	25C2412K	CLAMP BIAS
Q358	2SA1037KQR	VIDEO CLAMP
Q359	25C2412K	CLAMP BIAS
Q360	2SA1037KQR	CLK BUFFER
Q361	2SA1037KQR	CLK AMP
Q362	2SA1037KQR	Y BUFFER
Q363	2SA1037KQR	C BUFFER
Q364	2SA1162	C BUFFER
Q365	2SA1162	Y BUFFER
Q366	25C2412K	SHP BUFFER
Q367	25C2412K	Y BUFFER
Q368	25C2412K	SHP AMP
Q369	25C2412K	SHP AMP
Q370	25C2412K	SHP AMP
Q371	25C2412K	VM BUFFER
Q372	25C2412K	VM AMP
Q373	0TC124EK	SYSTEM SW
Q1301	0TC124EK	Y BUFFER
Q1302	25C2412K	Y BUFFER
Q1303	25C2412K	VM MUTE
0301	1MN10	ACO AT STBY
0304	0AN212K	PROTECT
0305	0AN212K	PROTECT
0307	MA3110M	PROTECT
0308	0AN212K	PROTECT
0309	0AN212K	PROTECT
0310	MA3110M	PROTECT
0311	MA3110M	PROTECT
0312	MA3110M	PROTECT
0314	0A204K	PROTECT
0318	0A204K	PROTECT
0319	0A204K	PROTECT
0320	0A204K	PROTECT
0321	MA3056	REG
0322	0AN212K	PROTECT
0330	0AN212K	BIAS
0331	0AP202K	Y/C SW
0333	1MN10	SYSTEM SW
0336	0AN202K	CORRECT SW
0340	0A204K	VIDEO AMP
0341	0AN212K	VIDEO AMP

the voltage value shown by the
on the Schematic Diagram, see
ther list.

B1 Board

IC·NO	PIN·NO	PAL	SECAM	NTSC 3.38	NTSC 4.43
IC301	(5)	5.1	4.8	4.8	4.8
	(15)	7.3	7.0	7.0	7.0
	(19)	3.1	3.4	3.8	3.4
	(26)	6.6	6.6	6.0	6.3
IC304	(3)	6.8	6.8	6.9	6.8
	(5)	9.9	10.1	9.9	9.9
	(7)	4.3	3.5	4.6	4.6
	(8)	3.4	3.0	3.4	3.4
	(9)	3.4	3.0	3.4	3.4
	(10)	4.3	3.4	4.6	4.6
	(21)	2.3	3.1	3.1	2.3
	(22)	5.6	5.6	5.6	7.4
	(23)	7.5	7.5	5.7	5.7
	(25)	0	1.4	5.9	5.9
	(26)	0	0	0	0
	(27)	0	5.9	0	0
	(28)	5.9	0	0	0

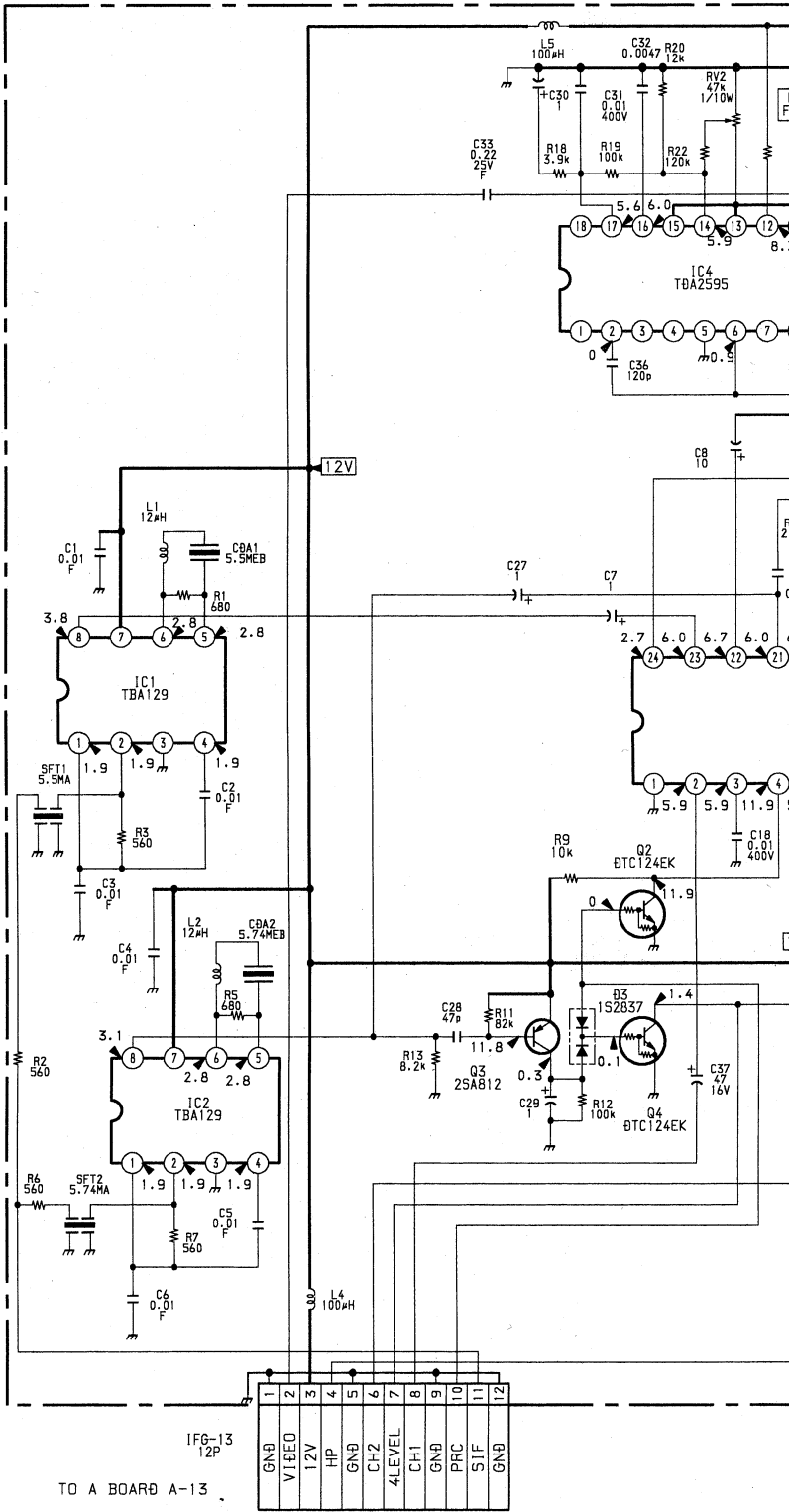
Q·NO		PAL	SECAM	NTSC 3.38	NTSC 4.43
Q338	B	2.6	3.9	3.9	3.9
	E	3.3	4.6	4.6	4.6
Q339	B	3.2	4.6	4.6	4.6
	E	3.6	3.9	3.9	3.9
Q341	B	0	0.6	0.4	0.1
	C	11.8	0	11.6	11.6
Q342	B	0	0	0.4	0
	C	11.7	0	11.7	11.7
Q343	B	3.2	5.3	5.3	5.3
	E	2.6	4.6	4.7	4.7
Q344	B	0	5.4	1.0	0.1
	E	4.0	4.8	1.5	4.5
Q345	B	4.6	0.1	1.9	5.0
	E	4.0	4.4	1.4	4.4
Q347	B	0.6	0	0	0
	C	0.1	11.9	11.9	11.9
Q348	B	0.1	0.1	1.0	0.1
	C	0.4	0.2	0.2	0.4

Waveforms B1 Board

① PAL 5.4Vp-p (H)	① SECAM 4.8Vp-p (H)	① NTSC3.58/ NTSC4.43 5.6Vp-p (H)
② PAL 5.4Vp-p (H)	② SECAM 4.8Vp-p (H)	② NTSC3.58/ NTSC4.43 5.6Vp-p (H)
③ PAL 5.4Vp-p (H)	③ SECAM 5.0Vp-p (H)	③ NTSC3.58/ NTSC4.43 6.2Vp-p (H)
④ 10.5Vp-p (H)	⑤ PAL 0.4Vp-p (H)	⑤ SECAM 0.3Vp-p (H)
⑤ NTSC3.58/ NTSC4.43 0.6Vp-p (H)	⑥ PAL/SECAM 1.1Vp-p (H)	⑥ NTSC3.58/ NTSC4.43 1.2Vp-p (H)
⑦ PAL/SECAM 1.4Vp-p (H)	⑦ NTSC3.58/ NTSC4.43 1.4Vp-p (H)	⑧ PAL 0.6Vp-p (H)
⑧ SECAM 1.2Vp-p (H)	⑧ NTSC3.58/ NTSC4.43 0.8Vp-p (H)	⑨ PAL 0.7Vp-p (H)
⑨ SECAM 1.4Vp-p (H)	⑨ NTSC3.58/ NTSC4.43 0.85Vp-p (H)	⑩ SECAM 0.2Vp-p (H)
⑪ SECAM 1.2Vp-p (H)	⑫ PAL 0.16Vp-p (H)	⑫ SECAM 0.2Vp-p (H)
⑫ NTSC3.58/ NTSC4.43 0.3Vp-p (H)	⑬ PAL 1.0Vp-p (H)	⑬ SECAM 0.8Vp-p (H)
⑬ NTSC3.58 0.9Vp-p (H)	⑬ NTSC4.43 0.95Vp-p (H)	⑭ PAL 0.8Vp-p (H)
⑭ SECAM 0.7Vp-p (H)	⑭ NTSC3.58 0.6Vp-p (H)	⑭ NTSC4.43 0.8Vp-p (H)
⑮ PAL 0.7Vp-p (H)	⑮ SECAM 0.1Vp-p (H)	⑮ NTSC3.58 0.5Vp-p (H)
⑮ NTSC4.43 0.6Vp-p (H)	⑯ PAL/SECAM 0.9Vp-p (H)	⑯ NTSC3.58 0.7Vp-p (H)
⑯ NTSC4.43 0.8Vp-p (H)	⑰ PAL 1.9Vp-p (H)	⑰ NTSC3.58 0.4Vp-p (H)
⑰ NTSC4.43 0.2Vp-p (H)	⑱ PAL 0.2Vp-p (H)	⑱ SECAM 0.8Vp-p (H)
⑱ PAL 0.6Vp-p (H)	⑱ SECAM 0.8Vp-p (H)	⑱ NTSC3.58/ NTSC4.43 0.9Vp-p (H)

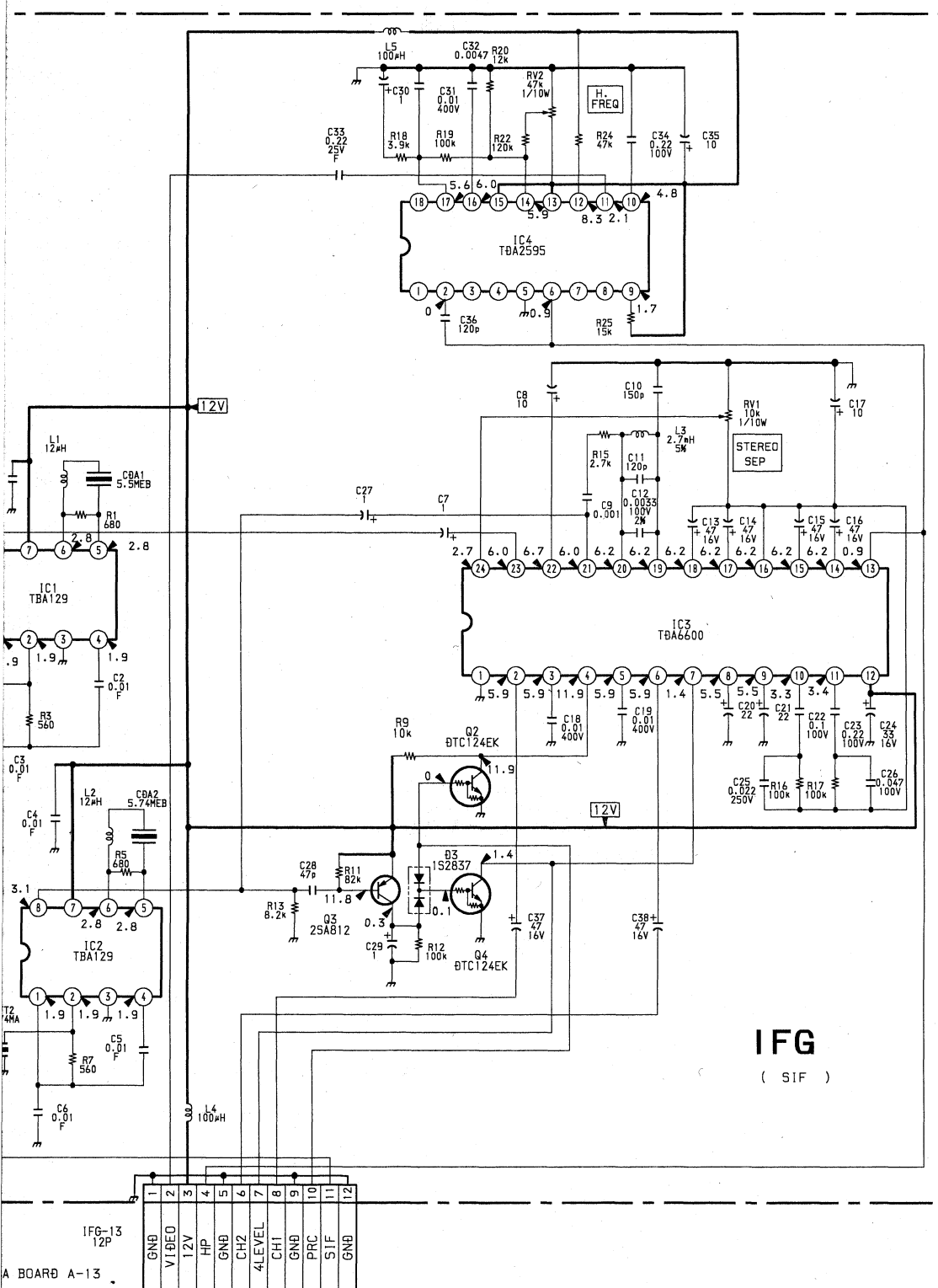
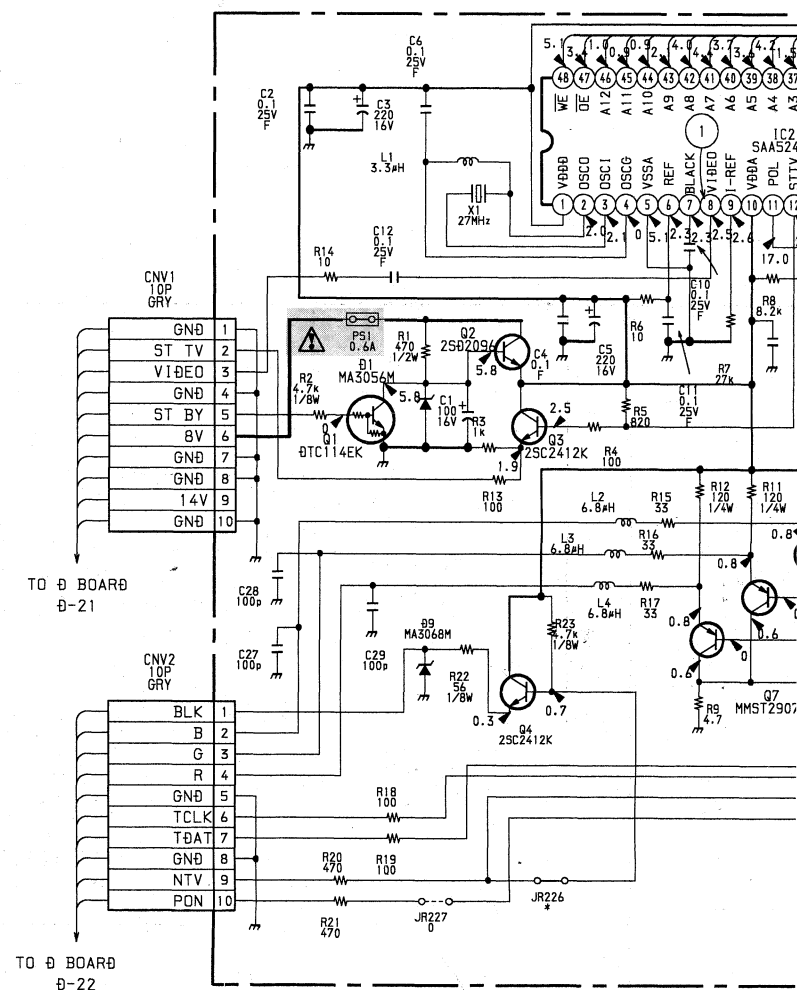
V Board

IC1	S0A20162-A002
IC2	SAA5246E
IC3	FCB61C65-70P
Q1	0TC114EK
Q2	2S02096
Q3	2SC2412K
Q4	2SC2412K
Q5	MMST2907A
Q6	MMST2907A
Q7	MMST2907A
Q8	2SC2412K
01	MA3056M
03	0AP202K
04	0AN202K
05	0AP202K
06	0AN202K
07	MA3036H
09	MA3068M



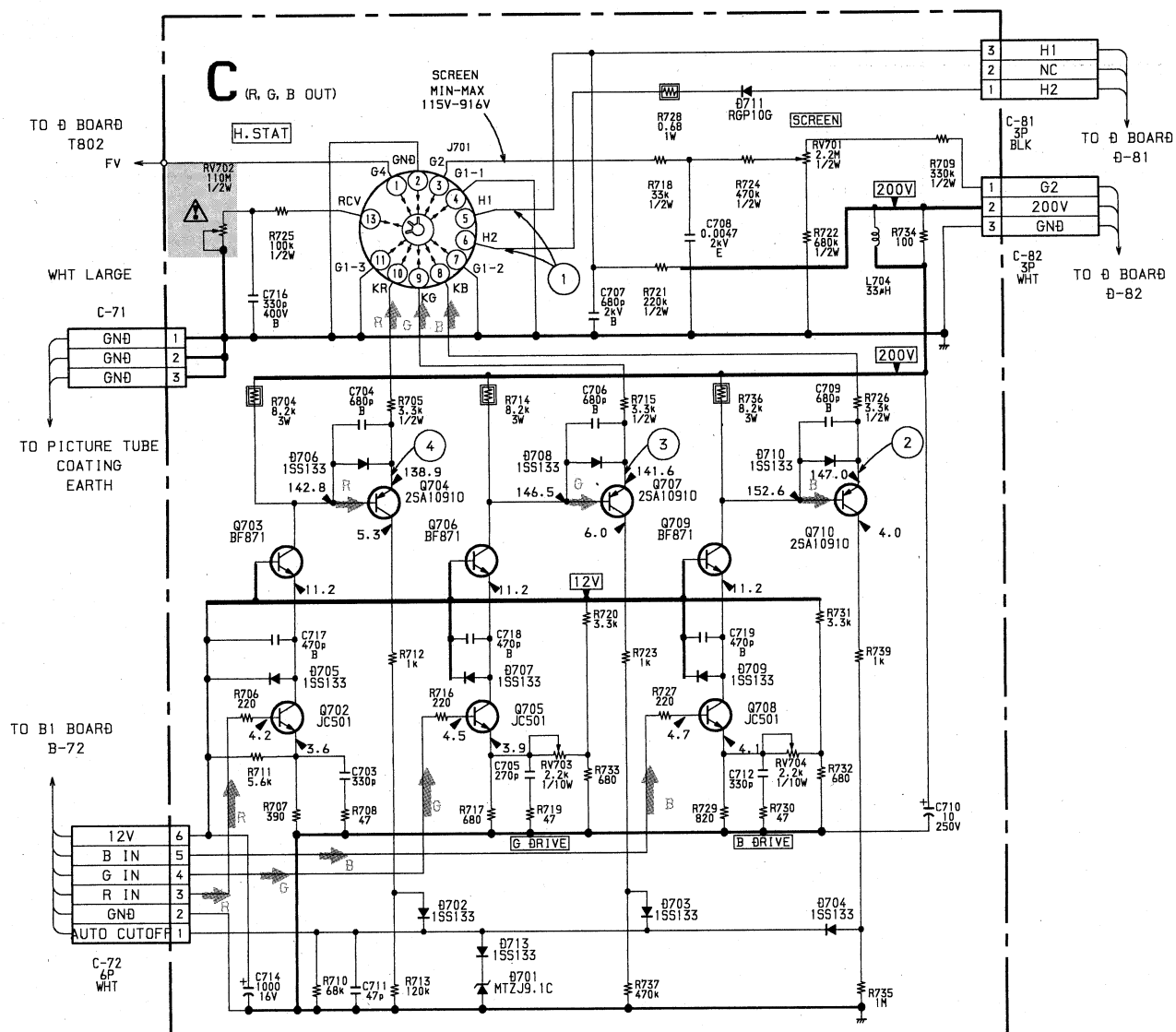
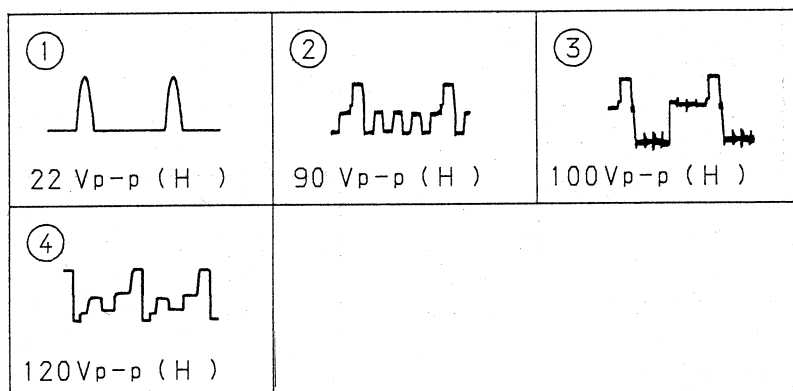
V Board

IC1	S0A20162-A002	MICRO-CONT
IC2	SAA5246E	IVT
IC3	FCB61C65-70P	STATIC-RAM
Q1	0TC114EK	STAND BY
Q2	2SD2096	5V REG
Q3	2SC2412K	SYNC BUFFER
Q4	2SC2412K	BLK OUT
Q5	MMST2907A	B OUT
Q6	MMST2907A	G OUT
Q7	MMST2907A	R OUT
Q8	2SC2412K	PON SW
01	MA3056M	5V REG
03	0AP202K	PROTEC
04	0AN202K	PROTEC
05	0AP202K	PROTEC
06	0AN202K	PROTEC
07	MA3036H	PROTEC
09	MA3068M	PROTEC

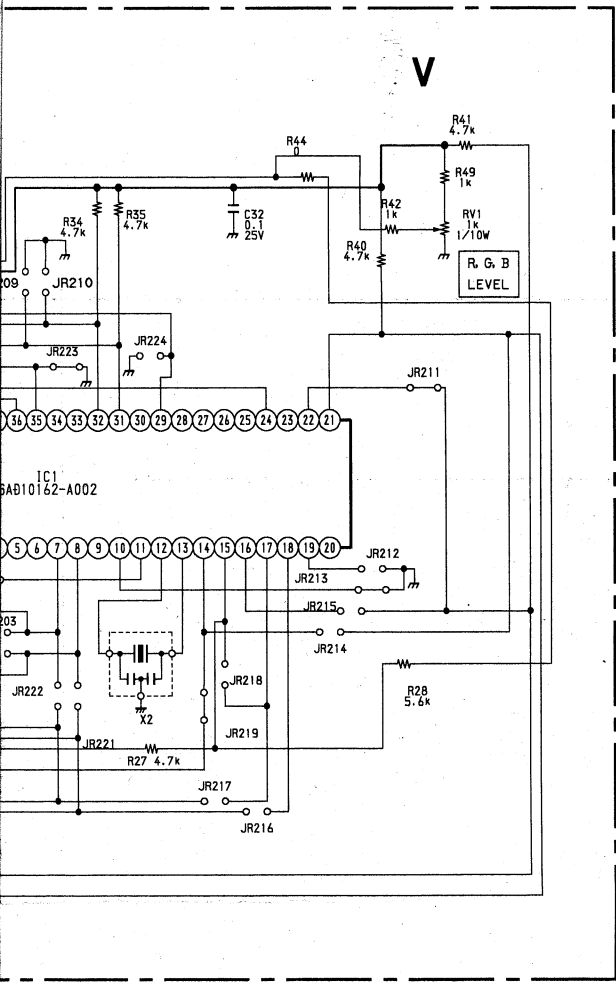


C Board

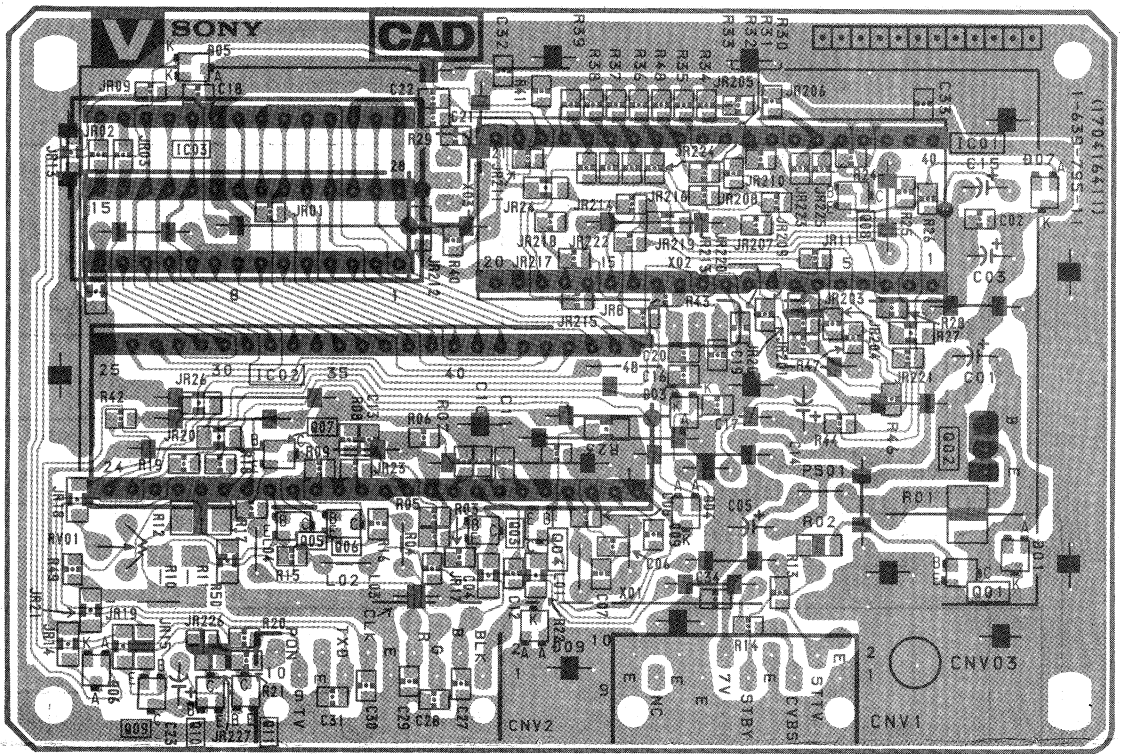
Q702	JCS01	R 0RIVE
Q703	0F871	R OUT
Q704	2SA10910	ACO MEASURING
Q705	JCS01	G 0RIVE
Q706	BF871	G OUT
Q707	2SA10910	ACO MEASURING
Q708	JCS01	B 0RIVE
Q709	BF871	B OUT
Q710	2SA10910	ACO MEASURING
0701	MTZJ9.1C	PROTECT
0702	1SS133	PROTECT
0703	1SS133	PROTECT
0704	1SS133	PROTECT
0705	1SS133	PROTECT
0706	1SS133	PROTECT
0707	1SS133	PROTECT
0708	1SS133	PROTECT
0709	1SS133	PROTECT
0710	1SS133	PROTECT
0711	RGP10G	HEATING VOLTAGE REC
0713	1SS133	PROTECT



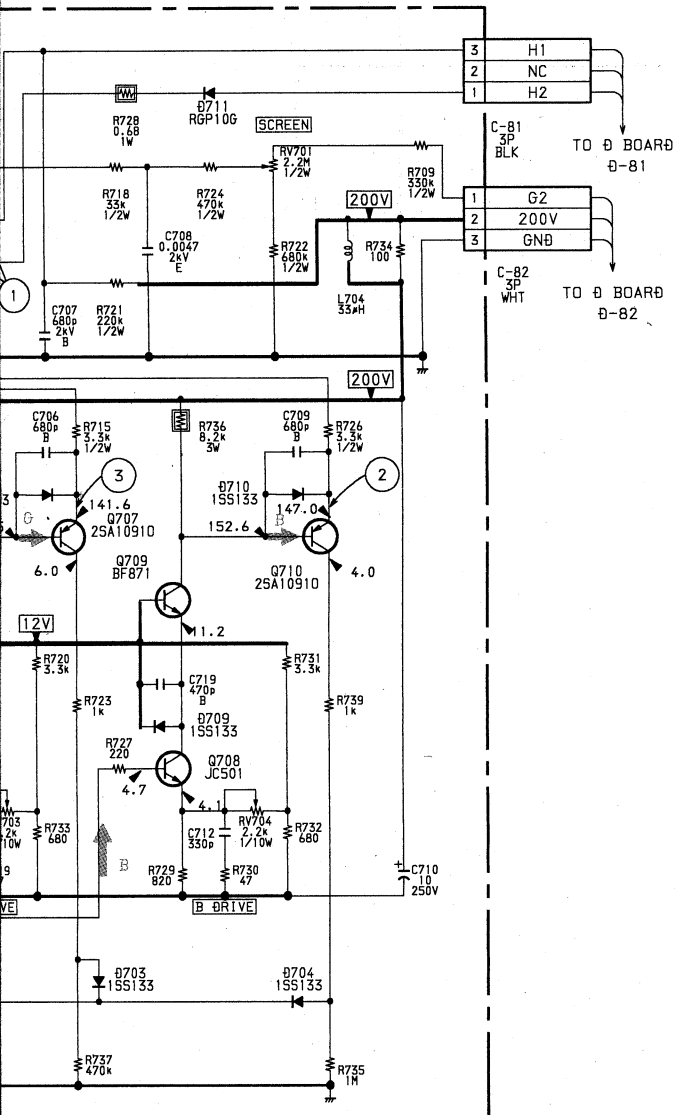
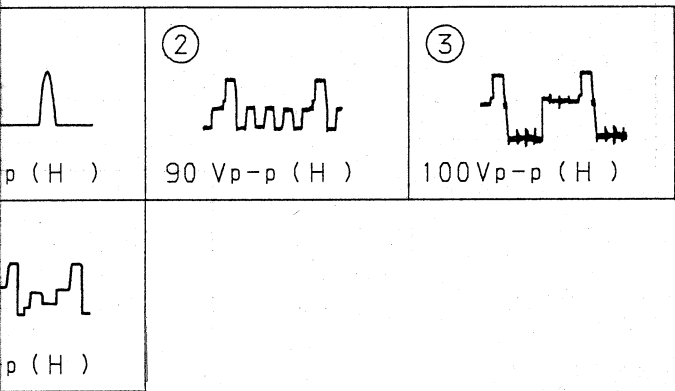
JC501	R ØRIVE
ØF871	R OUT
2SA10910	ACO MEASURING
JC501	G ØRIVE
BF871	G OUT
2SA10910	ACO MEASURING
JC501	B ØRIVE
BF871	B OUT
2SA10910	ACO MEASURING
MTZJ9.1C	PROTECT
1SS133	PROTECT
1SS133	PROTECT
1SS133	PROTECT
1SS133	PROTECT
1SS133	PROTECT
1SS133	PROTECT
1SS133	PROTECT
1SS133	PROTECT
1SS133	PROTECT
RGPIOG	HEATING VOLTAGE REC
1SS133	PROTECT



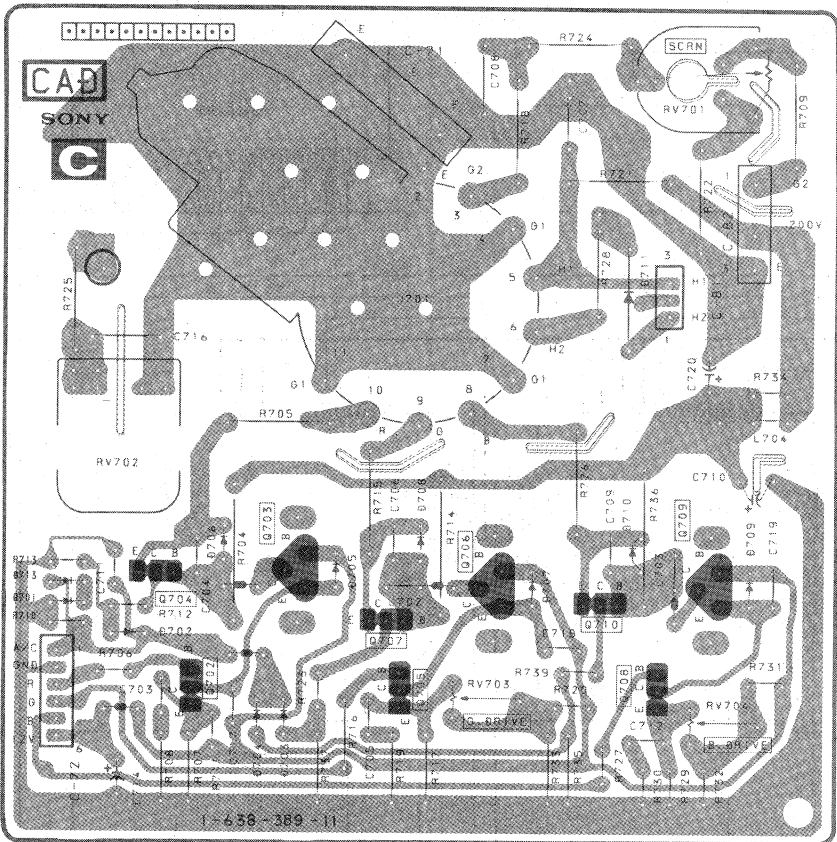
— V Board —



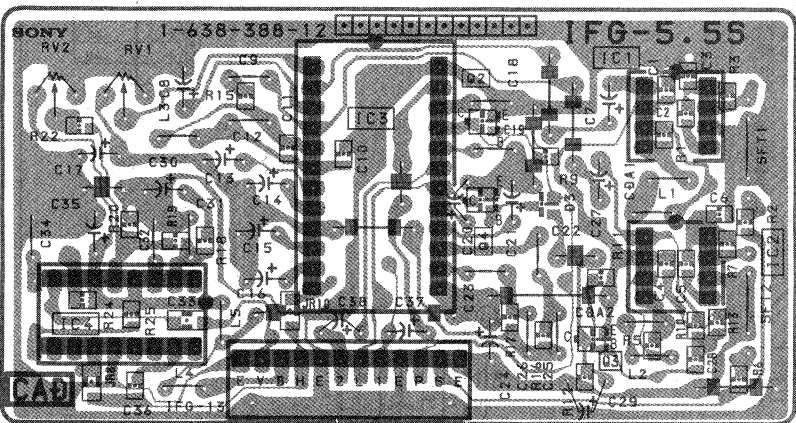
ms C Board



— C Board —

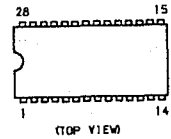


— IFG Board —

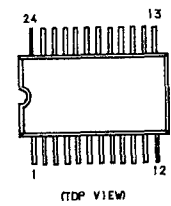


5-4. SEMICONDUCTORS

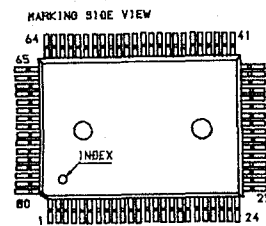
CXA1114P
FCB61C65-70P
SAA5246P/E
SDA20162-A002
TDA4580-V6
TDA6200
TEA2028B



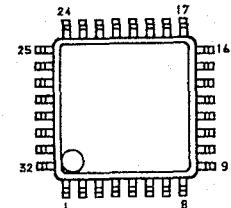
CXD1175AM



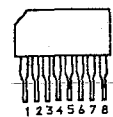
CX02011Q



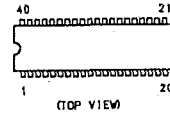
CXK-1202Q



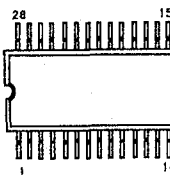
CX20061



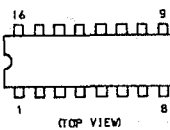
FCB61C65-70P
SDA20560-AE1C



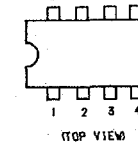
MB40968PF



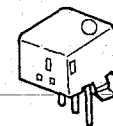
MC14053BCP
PCF8574
TC4051BPHB
TDA4660T
TDA8442-N3
TEA2260



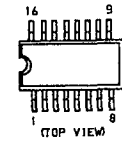
RC4558P
SDA2546
TBA129
TEA2014A
TEA2031A



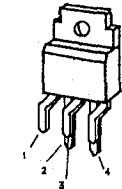
SBX1610-11



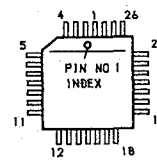
HCF4052BM



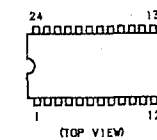
TDA2050



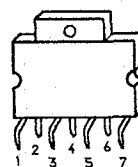
TDA4650WP



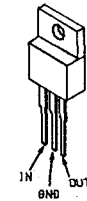
TDA6600-2



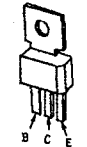
TDA8170



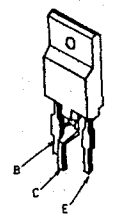
TEA7605
TYA7812CT
μPC24M05HF



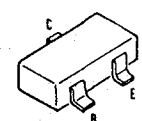
BF871



BU508AS1
BU508AS1H
2SD1548-LB



DTA144EK
DTC114EK
DTC124EK
2SA1162-G
2SB1295-UL6
2SC1623-L5L6



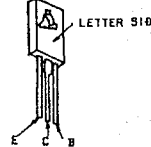
DTC144ES



2SA1091-0
2SD789-34



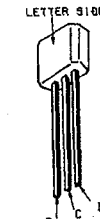
2SA1220A-P
2SC2688-LK
2SD789-34



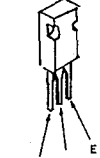
2SB734-34
2SD774-34



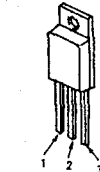
2SC2785-HFE



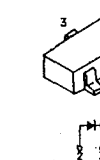
2SD2096-EF



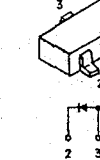
CTU-125



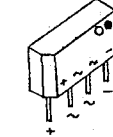
DAN202K
DAN212K
MA152WK



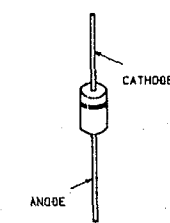
0AP202K



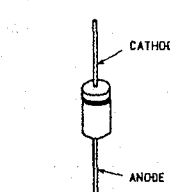
04SB60L-F



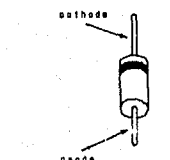
EGP20G
ERC06-155
RU-3AM



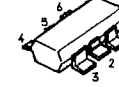
ER028-08S
RGP02-17



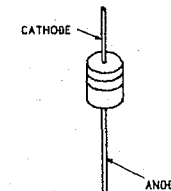
ER029-08J



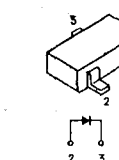
1MN10



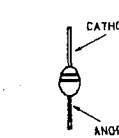
MTZJ-13B
MTZJ-15A
MTZJ-39B
MTZJ-33A
MTZJ-36D
MTZJ-6.2B
MTZN-10C
RD5.6ES-B2
RD6.8ES-B2
RD7.5ES-B2
RD9.1ES-B3
UZ4.7BSC
1SS119



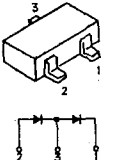
RD11M-B2
RD3.6M-B2
RD5.6M-B2
RD6.8M-B2



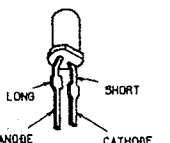
U05G



1SS226



LD-201VR



SECTION 6 EXPLODED VIEWS

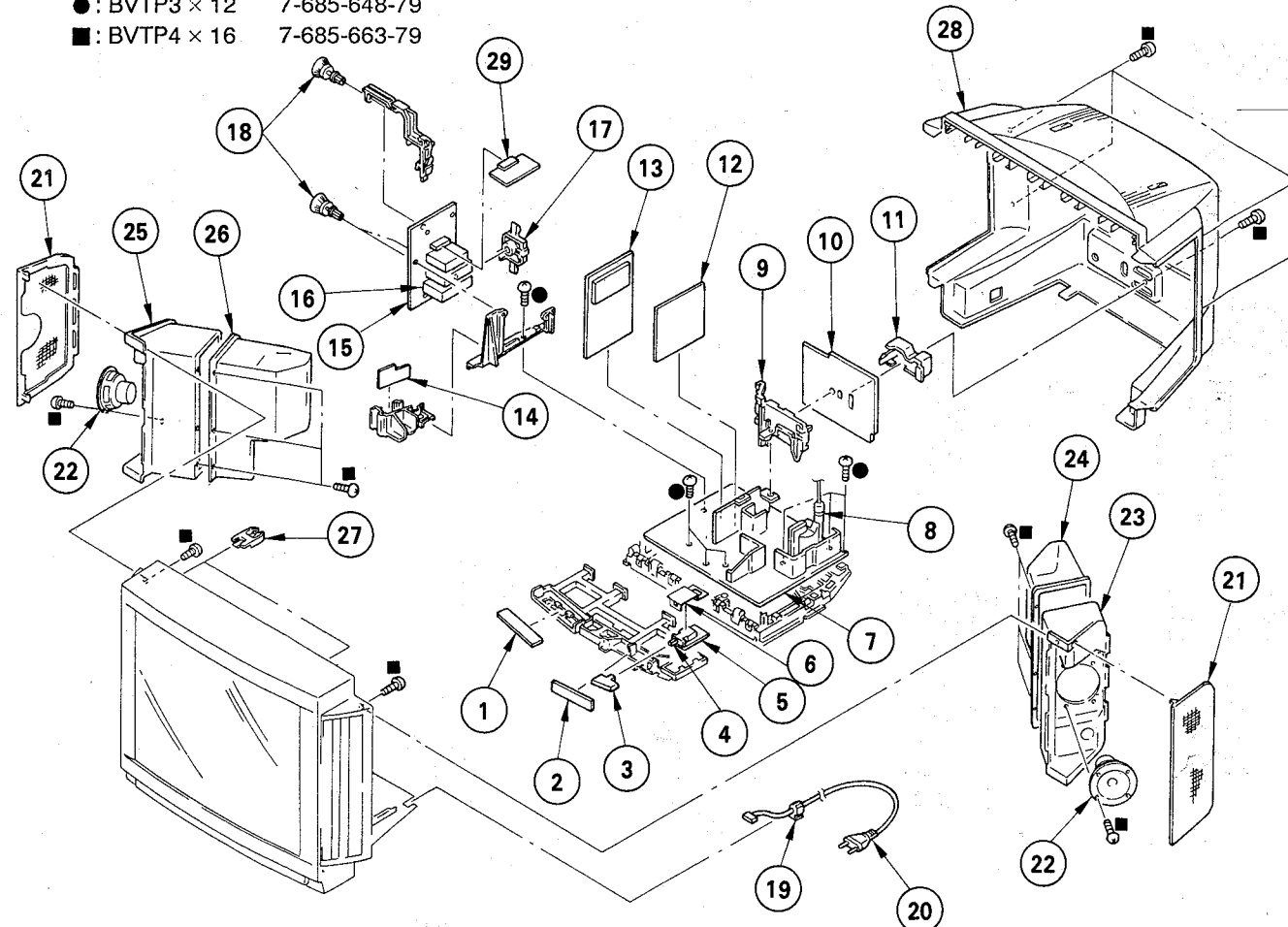
NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

6-1. CHASSIS

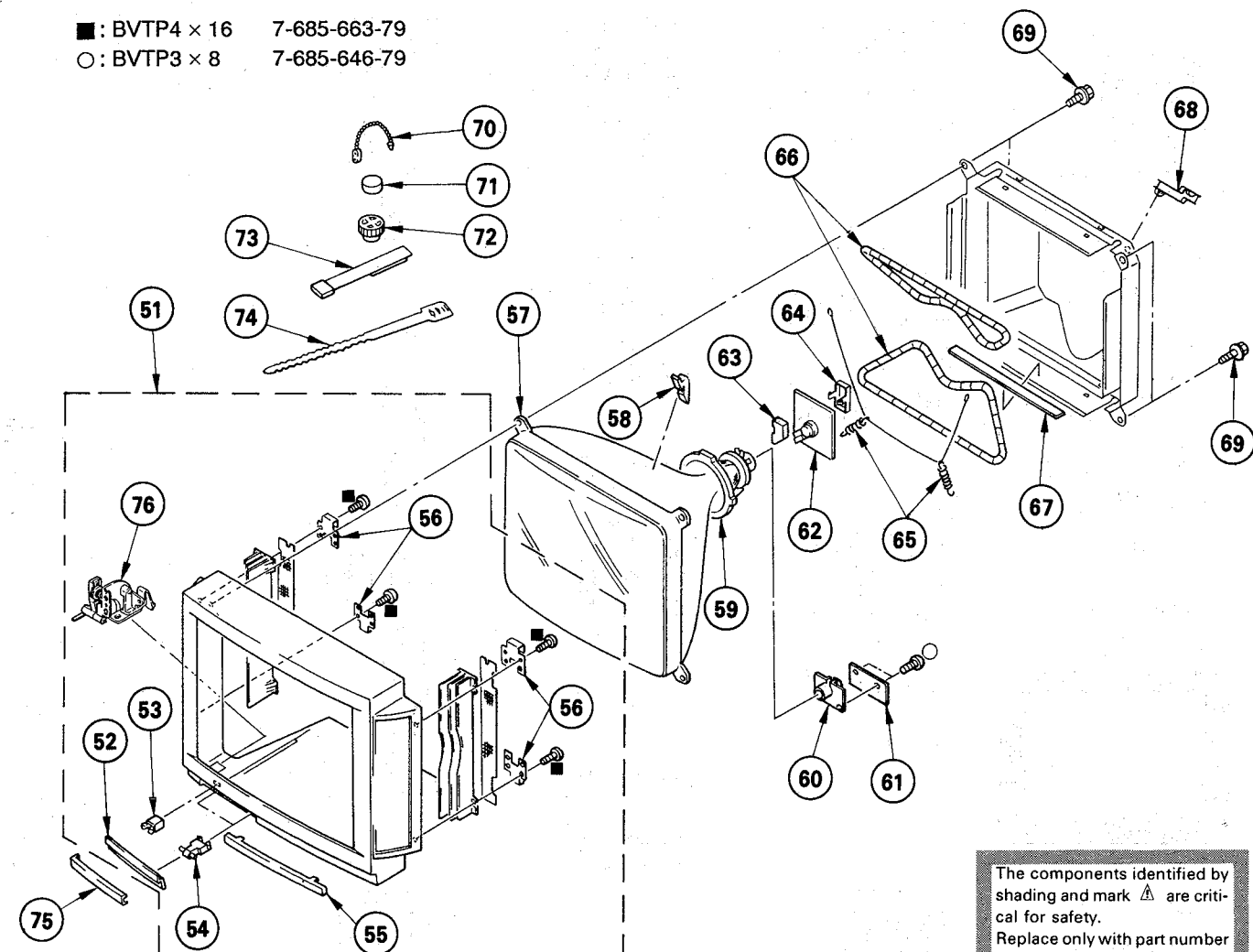
- : BVTP3 × 12 7-685-648-79
■: BVTP4 × 16 7-685-663-79



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
1	*1-638-391-11	H1 BOARD		16 Δ	1-465-301-11	TUNER, BT (UV-816(PLL))	
2	*1-638-392-11	H2 BOARD		17	*4-386-617-01	HOLDER, TERMINAL	
3	4-031-044-01	BUTTON, POWER		18	4-386-618-01	RIVET, T TYPE	
4 Δ	1-571-433-12	SWITCH, PUSH (AC POWER)		19 Δ	4-389-201-02	HOLDER, AC CORD	
5	*1-638-390-11	F BOARD		20 Δ	1-590-501-11	CORD, POWER (WITH NOISE FILTER)	
6	4-200-757-01	COVER, POWER SWITCH		21	X-4029-440-1	GRILLE ASSY, SPEAKER	
7	A-1642-032-A	D BOARD, COMPLETE		22	1-544-475-11	SPEAKER	
8 Δ	1-439-416-51	TRANSFORMER ASSY, FLYBACK (UX-1650)		23	*4-031-094-01	BOARD (RIGHT), BAFFLE	
9	*4-386-624-11	BRACKET, J		24	*4-031-101-01	BOX (RIGHT), SPEAKER	
10	A-1651-020-A	J1 BOARD, COMPLETE		25	*4-031-095-01	BOARD (LEFT), BAFFLE	
11	4-200-014-01	BRACKET, TERMINAL		26	*4-031-102-01	BOX (LEFT), SPEAKER	
12	A-1645-013-A	V BOARD, COMPLETE		27	4-382-745-01	HOLDER, RC	
13	A-1621-015-A	B1 BOARD, COMPLETE		28	4-032-133-01	COVER, REAR	
14	*1-638-393-11	J2 BOARD		29	A-1654-004-A	IFG BOARD, COMPLETE	
15	A-1632-022-A	A BOARD, COMPLETE					

6-2. PICTURE TUBE

- : BVTP4 × 16 7-685-663-79
○: BVTP3 × 8 7-685-646-79



The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
51	X-4029-713-1	CABINET ASSY (WITH BEZEL ASSY)	52-56, 76	64	*4-379-160-01	COVER (REAR LID), CV	
52	4-032-134-01	DOOR		65	4-369-318-00	SPRING, TENSION	
53	4-392-036-01	CATCHER, PUSH		66 Δ	1-426-398-11	COIL, DEMAGNETIZATION	
54	3-703-035-11	SHAFT, LID		67	4-389-291-01	CUSHION	
55	4-032-203-01	ORNAMENT WINDOW		68	*4-387-284-01	HOLDER, LEAD	
56	4-031-088-01	BRACKET, SPEAKER		69	4-373-263-01	SCREW (M), PT	
57 Δ	8-733-823-05	PICTURE TUBE (A68JYK60X)		70	4-308-870-00	CLIP, LEAD WIRE	
58	3-704-495-01	SPACER, DY		71	1-452-032-00	MAGNET, DISK; 10MM ϕ	
59 Δ	1-451-313-21	DEFLECTION YOKE (Y29FXA)		72	1-452-094-00	MAGNET, ROTABLE DISK; 15MM ϕ	
60 Δ	1-452-509-42	NECK ASSY, PICTURE TUBE (NA-308)		73	X-4387-214-1	PERMALLOY ASSY, CORRECTION	
61	*1-634-193-11	VM BOARD		74	3-701-007-00	BAND, BINDING	
62	*A-1638-013-A	C BOARD, COMPLETE		75	4-032-135-01	ORNAMENT DOOR	
63	*4-379-167-01	COVER (MAIN), CV		76	X-4029-878-1	DAMPER ASSY	

SECTION 7

ELECTRICAL PARTS LIST

B1

NOTE:

The components identified by shading and mark Δ are critical for safety.

Replace only with part number specified.

• Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS

• All resistors are in ohms
• F : nonflammable

When indicating parts by reference number, please include the board name.

CAPACITORS

• MF : μ F, PF : μ F

COILS

• MMH : mH, UH : μ H

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
	A-1621-015-A	B1 BOARD, COMPLETE *****		C342	1-124-903-11	ELECT 1MF 20% 50V	
		<CONNECTOR>		C343	1-163-038-00	CERAMIC CHIP 0.1MF 25V	
B31	*1-565-393-11	CONNECTOR, BOARD TO BOARD		C344	1-124-903-11	ELECT 1MF 20% 50V	
B32	*1-565-393-11	CONNECTOR, BOARD TO BOARD		C345	1-137-094-11	FILM 0.047MF 10% 100V	
B33	*1-565-393-11	CONNECTOR, BOARD TO BOARD		C346	1-137-033-11	FILM 0.33MF 10% 100V	
B72	*1-568-881-51	PIN, CONNECTOR 6P		C347	1-137-098-11	FILM 0.1MF 10% 100V	
B73	*1-568-878-51	PIN, CONNECTOR 3P		C348	1-137-102-11	FILM 0.022MF 10% 250V	
		<CAPACITOR>		C349	1-137-102-11	FILM 0.022MF 10% 250V	
C301	1-137-031-11	FILM 0.22MF 10% 100V		C350	1-124-902-00	ELECT 0.47MF 20% 50V	
C302	1-137-031-11	FILM 0.22MF 10% 100V		C351	1-137-102-11	FILM 0.022MF 10% 250V	
C303	1-124-122-11	ELECT 100MF 20% 50V		C352	1-164-232-11	CERAMIC CHIP 0.01MF 50V	
C304	1-137-031-11	FILM 0.22MF 10% 100V		C353	1-126-101-11	ELECT 100MF 20% 16V	
C305	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V		C354	1-164-232-11	CERAMIC CHIP 0.01MF 50V	
C306	1-124-902-00	ELECT 0.47MF 20% 50V		C355	1-126-101-11	ELECT 100MF 20% 16V	
C307	1-124-902-00	ELECT 0.47MF 20% 50V		C357	1-164-232-11	CERAMIC CHIP 0.01MF 50V	
C308	1-124-902-00	ELECT 0.47MF 20% 50V		C358	1-164-232-11	CERAMIC CHIP 0.01MF 50V	
C309	1-124-902-00	ELECT 0.47MF 20% 50V		C360	1-164-232-11	CERAMIC CHIP 0.01MF 50V	
C310	1-137-098-11	FILM 0.1MF 10% 100V		C361	1-164-232-11	CERAMIC CHIP 0.01MF 50V	
C311	1-137-098-11	FILM 0.1MF 10% 100V		C363	1-163-033-00	CERAMIC CHIP 0.022MF 50V	
C312	1-124-902-00	ELECT 0.47MF 20% 50V		C371	1-164-232-11	CERAMIC CHIP 0.01MF 50V	
C313	1-124-902-00	ELECT 0.47MF 20% 50V		C372	1-124-477-11	ELECT 47MF 20% 16V	
C314	1-124-902-00	ELECT 0.47MF 20% 50V		C373	1-124-477-11	ELECT 47MF 20% 16V	
C315	1-124-903-11	ELECT 1MF 20% 50V		C374	1-163-090-00	CERAMIC CHIP 7PF 0.25PF 50V	
C316	1-124-927-11	ELECT 4.7MF 20% 50V		C375	1-163-090-00	CERAMIC CHIP 7PF 0.25PF 50V	
C317	1-164-232-11	CERAMIC CHIP 0.01MF 50V		C376	1-124-034-51	ELECT 33MF 20% 16V	
C318	1-124-927-11	ELECT 4.7MF 20% 50V		C377	1-124-119-00	ELECT 330MF 20% 16V	
C319	1-124-927-11	ELECT 4.7MF 20% 50V		C378	1-124-034-51	ELECT 33MF 20% 16V	
C320	1-124-910-11	ELECT 47MF 20% 50V		C379	1-163-090-00	CERAMIC CHIP 7PF 0.25PF 50V	
C321	1-137-027-11	FILM 0.82MF 10% 63V		C380	1-163-090-00	CERAMIC CHIP 7PF 0.25PF 50V	
C322	1-163-077-00	CERAMIC CHIP 0.1MF 50V		C381	1-163-105-00	CERAMIC CHIP 33PF 5% 50V	
C323	1-164-232-11	CERAMIC CHIP 0.01MF 50V		C382	1-163-121-00	CERAMIC CHIP 150PF 5% 50V	
C324	1-164-232-11	CERAMIC CHIP 0.01MF 50V		C383	1-163-197-00	CERAMIC CHIP 470PF 5% 50V	
C325	1-163-038-00	CERAMIC CHIP 0.1MF 25V		C384	1-163-103-00	CERAMIC CHIP 27PF 5% 50V	
C326	1-124-910-11	ELECT 47MF 20% 50V		C385	1-163-093-00	CERAMIC CHIP 10PF 5% 50V	
C327	1-124-910-11	ELECT 47MF 20% 50V		C386	1-163-117-00	CERAMIC CHIP 100PF 5% 50V	
C328	1-163-038-00	CERAMIC CHIP 0.1MF 25V		C387	1-163-113-00	CERAMIC CHIP 68PF 5% 50V	
C329	1-163-123-00	CERAMIC CHIP 180PF 5% 50V		C388	1-164-232-11	CERAMIC CHIP 0.01MF 50V	
C330	1-163-125-00	CERAMIC CHIP 220PF 5% 50V		C389	1-163-097-00	CERAMIC CHIP 15PF 5% 50V	
C331	1-137-098-11	FILM 0.1MF 10% 100V		C390	1-124-907-11	ELECT 10MF 20% 50V	
C332	1-137-098-11	FILM 0.1MF 10% 100V		C391	1-124-907-11	ELECT 10MF 20% 50V	
C333	1-163-103-00	CERAMIC CHIP 27PF 5% 50V		C392	1-124-907-11	ELECT 10MF 20% 50V	
C335	1-163-119-00	CERAMIC CHIP 120PF 5% 50V		C393	1-126-101-11	ELECT 100MF 20% 16V	
C337	1-163-103-00	CERAMIC CHIP 27PF 5% 50V		C394	1-126-101-11	ELECT 100MF 20% 16V	
C338	1-137-102-11	FILM 0.022MF 10% 250V		C395	1-126-101-11	ELECT 100MF 20% 16V	
C339	1-164-232-11	CERAMIC CHIP 0.01MF 50V		C396	1-126-101-11	ELECT 100MF 20% 16V	
C340	1-126-103-11	ELECT 470MF 20% 16V		C397	1-137-028-11	FILM 1MF 10% 63V	
C341	1-164-232-11	CERAMIC CHIP 0.01MF 50V		C398	1-124-907-11	ELECT 10MF 20% 50V	
				C399	1-163-038-00	CERAMIC CHIP 0.1MF 25V	
				C1301	1-163-105-00	CERAMIC CHIP 33PF 5% 50V	
				C1302	1-163-235-11	CERAMIC CHIP 22PF 5% 50V	
				C1303	1-163-038-00	CERAMIC CHIP 0.1MF 25V	

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C1304	1-124-907-11	ELECT 10MF	20%			<FILTER>	
C1305	1-126-101-11	ELECT 100MF	20%				
C1306	1-163-038-00	CERAMIC CHIP 0.1MF		FL301	1-236-620-11	FILTER, LOW PASS	
C1307	1-163-038-00	CERAMIC CHIP 0.1MF		FL302	1-236-620-11	FILTER, LOW PASS	
C1308	1-163-038-00	CERAMIC CHIP 0.1MF		FL303	1-236-620-11	FILTER, LOW PASS	
				FL305	1-236-164-11	ENCAPSULATED COMPONENT	
C1309	1-164-232-11	CERAMIC CHIP 0.01MF				<IC>	
C1310	1-164-232-11	CERAMIC CHIP 0.01MF		IC301	8-759-517-43	IC TDA4580/V7	
C1311	1-163-038-00	CERAMIC CHIP 0.1MF		IC302	8-759-980-60	IC TDA8442N3	
C1312	1-163-038-00	CERAMIC CHIP 0.1MF		IC303	8-759-510-48	IC TDA4660T	
C1313	1-163-038-00	CERAMIC CHIP 0.1MF		IC304	8-759-510-47	IC TDA4650WP	
				IC305	8-759-144-84	IC UPC24M05HF	
C1314	1-163-109-00	CERAMIC CHIP 47PF	5%	IC306	8-759-510-50	IC HCF4052BM	
C1315	1-163-038-00	CERAMIC CHIP 0.1MF		IC308	8-752-006-12	IC CX20061	
C1316	1-163-141-00	CERAMIC CHIP 0.001MF	5%	IC310	8-752-337-07	IC CXD2011Q	
C1317	1-163-038-00	CERAMIC CHIP 0.1MF		IC311	8-759-996-49	IC MB40968PF	
C1318	1-163-038-00	CERAMIC CHIP 0.1MF		IC312	8-752-338-45	IC CXK1202Q	
C1319	1-164-232-11	CERAMIC CHIP 0.01MF		IC313	8-752-338-45	IC CXK1202Q	
C1320	1-164-232-11	CERAMIC CHIP 0.01MF		IC315	8-752-334-55	IC CXD1175AM	
C1321	1-164-232-11	CERAMIC CHIP 0.01MF				<COIL>	
C1322	1-164-232-11	CERAMIC CHIP 0.01MF		L301	1-408-405-00	INDUCTOR 4.7UH	
C1323	1-164-232-11	CERAMIC CHIP 0.01MF		L303	1-404-554-11	COIL	
C1324	1-163-033-00	CERAMIC CHIP 0.022MF		L304	1-408-405-00	INDUCTOR 4.7UH	
C1325	1-163-038-00	CERAMIC CHIP 0.1MF		L305	1-408-402-00	INDUCTOR 2.7UH	
C1326	1-164-232-11	CERAMIC CHIP 0.01MF		L306	1-408-405-00	INDUCTOR 4.7UH	
C1327	1-163-115-00	CERAMIC CHIP 82PF	5%	L308	1-404-495-00	COIL	
C1328	1-163-809-11	CERAMIC CHIP 0.047MF	10%	L309	1-408-415-00	INDUCTOR 33UH	
C1329	1-163-035-00	CERAMIC CHIP 0.047MF		L310	1-408-419-00	INDUCTOR 68UH	
C1330	1-164-232-11	CERAMIC CHIP 0.01MF	10%	L312	1-404-495-00	COIL	
C1331	1-164-187-11	CERAMIC CHIP 390PF	2%	L313	1-404-554-11	COIL	
C1333	1-126-101-11	ELECT 100MF	20%	L314	1-408-409-00	INDUCTOR 10UH	
				L320	1-408-405-00	INDUCTOR 4.7UH	
				L321	1-408-405-00	INDUCTOR 4.7UH	
				L323	1-408-398-00	INDUCTOR 1.2UH	
				L325	1-408-405-00	INDUCTOR 4.7UH	
				L326	1-408-421-00	INDUCTOR 100UH	
				L327	1-408-402-00	INDUCTOR 2.7UH	
				L1301	1-408-425-00	INDUCTOR 220UH	
						<IC LINK>	
				PS301A	1-532-605-91	LINK, IC (ICP-N10) 0.4A	
						<TRANSISTOR>	
				Q301	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
				Q302	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
				Q303	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
				Q304	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
				Q305	8-729-901-06	TRANSISTOR DTA144EK	
				Q306	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
				Q307	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
				Q308	8-729-901-00	TRANSISTOR DTC124EK	
				Q310	8-729-901-00	TRANSISTOR DTC124EK	
				Q311	8-729-901-00	TRANSISTOR DTC124EK	
				Q320	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
				Q321	8-729-216-22	TRANSISTOR 2SA1162-G	
				Q322	8-729-216-22	TRANSISTOR 2SA1162-G	
				Q323	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
				Q324	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
						<TRIMMER>	
CT301	1-141-418-11	CAP, ADJ					
CT302	1-141-418-11	CAP, ADJ					
						<DIODE>	
D301	8-719-951-22	DIODE 1MN10					
D304	8-719-989-26	DIODE DAN212K					
D305	8-719-989-26	DIODE DAN212K					
D307	8-719-106-62	DIODE RD11M-B2					
D308	8-719-989-26	DIODE DAN212K					
D309	8-719-989-26	DIODE DAN212K					
D310	8-719-106-62	DIODE RD11M-B2					
D311	8-719-106-62	DIODE RD11M-B2					
D312	8-719-106-62	DIODE RD11M-B2					
D314	8-719-800-76	DIODE ISS226					
D318	8-719-800-76	DIODE ISS226					
D319	8-719-800-76	DIODE ISS226					
D320	8-719-800-76	DIODE ISS226					
D321	8-719-105-91	DIODE RD5.6M-B2					
D322	8-719-400-18	DIODE MA152WK					
D330	8-719-989-26	DIODE DAN212K					
D331	8-719-914-44	DIODE DAP202K					
D333	8-719-951-22	DIODE 1MN10					
D336	8-719-400-18	DIODE MA152WK					
D340	8-719-800-76	DIODE ISS226					
D341	8-719-989-26	DIODE DAN212K					
						<DELAY LINE>	
DL301	1-415-613-11	DELAY LINE, Y					

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
Q327	8-729-216-22	TRANSISTOR 2SA1162-G		R311	1-216-025-00	METAL GLAZE 100 5%	1/10W
Q328	8-729-216-22	TRANSISTOR 2SA1162-G		R312	1-216-019-00	METAL GLAZE 56 5%	1/10W
Q329	8-729-216-22	TRANSISTOR 2SA1162-G					
Q330	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R313	1-216-019-00	METAL GLAZE 56 5%	1/10W
Q331	8-729-216-22	TRANSISTOR 2SA1162-G		R314	1-216-019-00	METAL GLAZE 56 5%	1/10W
				R316	1-216-081-00	METAL GLAZE 22K 5%	1/10W
Q332	8-729-216-22	TRANSISTOR 2SA1162-G		R317	1-216-033-00	METAL GLAZE 220 5%	1/10W
Q333	8-729-901-00	TRANSISTOR DTC124EK		R318	1-216-073-00	METAL GLAZE 10K 5%	1/10W
Q334	8-729-901-00	TRANSISTOR DTC124EK					
Q335	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R319	1-216-073-00	METAL GLAZE 10K 5%	1/10W
Q336	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R320	1-216-198-00	METAL GLAZE 1K 5%	1/8W
				R321	1-216-073-00	METAL GLAZE 10K 5%	1/10W
Q337	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R322	1-216-073-00	METAL GLAZE 10K 5%	1/10W
Q338	8-729-216-22	TRANSISTOR 2SA1162-G		R323	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
Q339	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q340	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R324	1-216-049-00	METAL GLAZE 1K 5%	1/10W
Q341	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R325	1-216-033-00	METAL GLAZE 220 5%	1/10W
				R326	1-216-009-00	METAL GLAZE 22 5%	1/10W
Q342	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R327	1-216-009-00	METAL GLAZE 22 5%	1/10W
Q343	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R328	1-216-009-00	METAL GLAZE 22 5%	1/10W
Q344	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q345	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R329	1-216-031-00	METAL GLAZE 180 5%	1/10W
Q346	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R330	1-216-031-00	METAL GLAZE 180 5%	1/10W
				R331	1-216-031-00	METAL GLAZE 180 5%	1/10W
Q347	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R332	1-216-182-00	METAL GLAZE 220 5%	1/8W
Q348	8-729-901-00	TRANSISTOR DTC124EK		R333	1-216-033-00	METAL GLAZE 220 5%	1/10W
Q350	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q352	8-729-216-22	TRANSISTOR 2SA1162-G		R335	1-216-101-00	METAL GLAZE 150K 5%	1/10W
Q353	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R336	1-216-073-00	METAL GLAZE 10K 5%	1/10W
				R337	1-216-093-00	METAL GLAZE 68K 5%	1/10W
Q354	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R338	1-216-085-00	METAL GLAZE 33K 5%	1/10W
Q355	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R339	1-216-083-00	METAL GLAZE 27K 5%	1/10W
Q356	8-729-216-22	TRANSISTOR 2SA1162-G					
Q357	8-729-216-22	TRANSISTOR 2SA1162-G		R340	1-216-103-00	METAL GLAZE 180K 5%	1/10W
Q358	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R341	1-216-115-00	METAL GLAZE 560K 5%	1/10W
				R342	1-216-069-00	METAL GLAZE 6.8K 5%	1/10W
Q359	8-729-216-22	TRANSISTOR 2SA1162-G		R343	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
Q360	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R344	1-216-089-00	METAL GLAZE 47K 5%	1/10W
Q361	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q362	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R345	1-216-097-00	METAL GLAZE 100K 5%	1/10W
Q363	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R346	1-216-033-00	METAL GLAZE 220 5%	1/10W
				R347	1-216-121-00	METAL GLAZE 1M 5%	1/10W
Q364	8-729-216-22	TRANSISTOR 2SA1162-G		R348	1-216-001-00	METAL GLAZE 10 5%	1/10W
Q365	8-729-216-22	TRANSISTOR 2SA1162-G		R349	1-216-001-00	METAL GLAZE 10 5%	1/10W
Q366	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q367	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R350	1-216-184-00	METAL GLAZE 270 5%	1/8W
Q368	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R351	1-216-184-00	METAL GLAZE 270 5%	1/8W
				R352	1-216-070-00	METAL GLAZE 7.5K 5%	1/10W
Q369	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R353	1-216-073-00	METAL GLAZE 10K 5%	1/10W
Q370	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R354	1-216-037-00	METAL GLAZE 330 5%	1/10W
Q371	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q372	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R355	1-216-033-00	METAL GLAZE 220 5%	1/10W
Q373	8-729-901-00	TRANSISTOR DTC124EK		R357	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W
				R358	1-216-037-00	METAL GLAZE 330 5%	1/10W
Q1301	8-729-901-00	TRANSISTOR DTC124EK		R359	1-216-041-00	METAL GLAZE 470 5%	1/10W
Q1302	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R361	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
Q1303	8-729-901-00	TRANSISTOR DTC124EK					
<RESISTOR>				R362	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
JR302	1-216-295-00	METAL GLAZE 0 5%	1/10W	R363	1-216-069-00	METAL GLAZE 6.8K 5%	1/10W
JR304	1-216-296-00	METAL GLAZE 0 5%	1/8W	R364	1-216-033-00	METAL GLAZE 220 5%	1/10W
JR305	1-216-295-00	METAL GLAZE 0 5%	1/10W	R365	1-216-035-00	METAL GLAZE 270 5%	1/10W
JR391	1-216-295-00	METAL GLAZE 0 5%	1/10W	R366	1-216-069-00	METAL GLAZE 6.8K 5%	1/10W
R301	1-216-033-00	METAL GLAZE 220 5%	1/10W				
				R367	1-216-069-00	METAL GLAZE 6.8K 5%	1/10W
R302	1-216-033-00	METAL GLAZE 220 5%	1/10W	R368	1-216-071-00	METAL GLAZE 8.2K 5%	1/10W
R303	1-216-033-00	METAL GLAZE 220 5%	1/10W	R369	1-216-071-00	METAL GLAZE 8.2K 5%	1/10W
R304	1-216-081-00	METAL GLAZE 22K 5%	1/10W	R370	1-216-097-00	METAL GLAZE 100K 5%	1/10W
R305	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W	R371	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R306	1-216-035-00	METAL GLAZE 270 5%	1/10W				
				R372	1-216-033-00	METAL GLAZE 220 5%	1/10W
R307	1-216-097-00	METAL GLAZE 100K 5%	1/10W	R373	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W
R309	1-216-025-00	METAL GLAZE 100 5%	1/10W	R374	1-216-033-00	METAL GLAZE 220 5%	1/10W
R310	1-216-025-00	METAL GLAZE 100 5%	1/10W	R375	1-216-043-00	METAL GLAZE 560 5%	1/10W
				R376	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
				R377	1-216-081-00	METAL GLAZE 22K 5%	1/10W

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R378	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R1348	1-216-085-00	METAL GLAZE	33K 5% 1/10W
R379	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R1349	1-216-075-00	METAL GLAZE	12K 5% 1/10W
R380	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1350	1-216-039-00	METAL GLAZE	390 5% 1/10W
R381	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1351	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W
R382	1-216-093-00	METAL GLAZE	68K 5% 1/10W	R1352	1-216-041-00	METAL GLAZE	470 5% 1/10W
R383	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1353	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R384	1-216-093-00	METAL GLAZE	68K 5% 1/10W	R1354	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W
R385	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1355	1-216-045-00	METAL GLAZE	680 5% 1/10W
R386	1-216-093-00	METAL GLAZE	68K 5% 1/10W	R1356	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W
R387	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R1357	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R388	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W	R1358	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R389	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1359	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R390	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1360	1-216-051-00	METAL GLAZE	1.2K 5% 1/10W
R391	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R1361	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R392	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R1362	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W
R393	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R1363	1-216-039-00	METAL GLAZE	390 5% 1/10W
R394	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R1364	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R395	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R1365	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W
R396	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R1366	1-216-083-00	METAL GLAZE	27K 5% 1/10W
R397	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W	R1367	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W
R398	1-216-035-00	METAL GLAZE	270 5% 1/10W	R1368	1-216-033-00	METAL GLAZE	220 5% 1/10W
R399	1-216-085-00	METAL GLAZE	33K 5% 1/10W	R1369	1-216-031-00	METAL GLAZE	180 5% 1/10W
R1301	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R1370	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R1302	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R1371	1-216-031-00	METAL GLAZE	180 5% 1/10W
R1303	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R1372	1-216-047-00	METAL GLAZE	820 5% 1/10W
R1305	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W	R1373	1-216-035-00	METAL GLAZE	270 5% 1/10W
R1308	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R1374	1-216-202-00	METAL GLAZE	1.5K 5% 1/8W
R1309	1-216-023-00	METAL GLAZE	82 5% 1/10W	R1375	1-216-208-00	METAL GLAZE	2.7K 5% 1/8W
R1310	1-216-047-00	METAL GLAZE	820 5% 1/10W	R1376	1-216-748-11	METAL GLAZE	39K 5% 1/10W
R1311	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1377	1-216-748-11	METAL GLAZE	39K 5% 1/10W
R1312	1-216-045-00	METAL GLAZE	680 5% 1/10W	R1378	1-216-748-11	METAL GLAZE	39K 5% 1/10W
R1313	1-216-043-00	METAL GLAZE	560 5% 1/10W	R1379	1-216-748-11	METAL GLAZE	39K 5% 1/10W
R1314	1-216-085-00	METAL GLAZE	33K 5% 1/10W	R1380	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W
R1315	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1381	1-216-033-00	METAL GLAZE	220 5% 1/10W
R1316	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1382	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R1319	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1383	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W
R1320	1-216-641-11	METAL CHIP	390 0.50% 1/10W	R1384	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R1321	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1385	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W
R1322	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W	R1386	1-216-047-00	METAL GLAZE	820 5% 1/10W
R1323	1-216-643-11	METAL CHIP	470 0.50% 1/10W	R1387	1-216-031-00	METAL GLAZE	180 5% 1/10W
R1324	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1388	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R1325	1-216-037-00	METAL GLAZE	330 5% 1/10W	R1389	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R1326	1-216-045-00	METAL GLAZE	680 5% 1/10W	R1390	1-216-093-00	METAL GLAZE	68K 5% 1/10W
R1327	1-216-029-00	METAL GLAZE	150 5% 1/10W	R1391	1-216-208-00	METAL GLAZE	2.7K 5% 1/8W
R1328	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1392	1-216-047-00	METAL GLAZE	820 5% 1/10W
R1329	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1393	1-216-047-00	METAL GLAZE	820 5% 1/10W
R1330	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R1394	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R1331	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R1395	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R1332	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1396	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R1333	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R1397	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R1334	1-216-075-00	METAL GLAZE	12K 5% 1/10W	R1398	1-216-001-00	METAL GLAZE	10 5% 1/10W
R1335	1-216-043-00	METAL GLAZE	560 5% 1/10W	R1399	1-216-029-00	METAL GLAZE	150 5% 1/10W
R1336	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	<VARIABLE RESISTOR>			
R1337	1-216-657-11	METAL CHIP	1.8K 0.50% 1/10W	RV301	1-238-012-11	RES, ADJ, CARBON 1K	
R1338	1-216-085-00	METAL GLAZE	33K 5% 1/10W	<CRYSTAL>			
R1339	1-216-039-00	METAL GLAZE	390 5% 1/10W	X301	1-567-307-11	OSCILLATOR, CRYSTAL	
R1340	1-216-025-00	METAL GLAZE	100 5% 1/10W	X302	1-567-131-00	OSCILLATOR, CRYSTAL	
R1341	1-216-667-11	METAL CHIP	4.7K 0.50% 1/10W	*****			
R1342	1-216-025-00	METAL GLAZE	100 5% 1/10W				
R1343	1-216-043-00	METAL GLAZE	560 5% 1/10W				
R1344	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W				
R1345	1-216-077-00	METAL GLAZE	15K 5% 1/10W				
R1346	1-216-025-00	METAL GLAZE	100 5% 1/10W				
R1347	1-216-025-00	METAL GLAZE	100 5% 1/10W				

F A C

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
	*1-638-390-11	F BOARD *****				<TRANSISTOR>	
	*4-341-752-01	EYELET		Q113	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
		<CONNECTOR>		Q114	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
F61	*1-580-690-11	PIN, CONNECTOR (PC BOARD) 4P		Q115	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
F62	*1-580-690-11	PIN, CONNECTOR (PC BOARD) 4P		Q116	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
		<FUSE>		Q125	8-729-900-89	TRANSISTOR DTC144ES	
	F1601A 1-532-504-31	FUSE 4A/250V		Q126	8-729-901-06	TRANSISTOR DTA144EK	
	1-533-230-11	HOLDER, FUSE; F1601		Q181	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
		<SWITCH>				<RESISTOR>	
	S1701A 1-571-433-12	SWITCH, PUSH (AC POWER)		JR230	1-216-295-00	METAL GLAZE 0 5% 1/10W	
		*****		JR252	1-216-296-00	METAL GLAZE 0 5% 1/8W	
	A-1632-022-A	A BOARD, COMPLETE *****		JR253	1-216-296-00	METAL GLAZE 0 5% 1/8W	
		<CONNECTOR>		JR255	1-216-296-00	METAL GLAZE 0 5% 1/8W	
A11	*1-565-393-11	CONNECTOR, BOARD TO BOARD		JR256	1-216-296-00	METAL GLAZE 0 5% 1/8W	
A12	*1-565-393-11	CONNECTOR, BOARD TO BOARD		JR257	1-216-296-00	METAL GLAZE 0 5% 1/8W	
A13	*1-565-503-11	CONNECTOR, BOARD TO BOARD 12P		JR258	1-216-296-00	METAL GLAZE 0 5% 1/8W	
A16	*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)		R101	1-216-025-00	METAL GLAZE 100 5% 1/10W	
A17	*1-564-886-11	PLUG, CONNECTOR 9P		R105	1-216-079-00	METAL GLAZE 18K 5% 1/10W	
A19	*1-564-881-11	PLUG, CONNECTOR 4P		R107	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
		<CAPACITOR>		R108	1-216-079-00	METAL GLAZE 18K 5% 1/10W	
C101	1-126-233-11	ELECT 22MF 20% 50V		R110	1-249-429-11	CARBON 10K 5% 1/4W	
C102	1-126-103-11	ELECT 470MF 20% 16V		R111	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
C104	1-124-910-11	ELECT 47MF 20% 50V		R116	1-216-023-00	METAL GLAZE 82 5% 1/10W	
C106	1-126-233-11	ELECT 22MF 20% 50V		R118	1-216-085-00	METAL GLAZE 33K 5% 1/10W	
C108	1-136-165-00	FILM 0.1MF 5% 50V		R128	1-216-027-00	METAL GLAZE 120 5% 1/10W	
C109	1-163-133-00	CERAMIC CHIP 470PF 5% 50V		R129	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
C111	1-124-925-11	ELECT 2.2MF 20% 50V		R130	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
C115	1-124-925-11	ELECT 2.2MF 20% 50V		R157	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
C127	1-124-122-11	ELECT 100MF 20% 50V		R158	1-249-409-11	CARBON 220 5% 1/4W	
C128	1-124-910-11	ELECT 47MF 20% 50V		R159	1-249-409-11	CARBON 220 5% 1/4W	
C129	1-124-910-11	ELECT 47MF 20% 50V		R161	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
C138	1-136-165-00	FILM 0.1MF 5% 50V		R162	1-216-095-00	METAL GLAZE 82K 5% 1/10W	
C171	1-163-005-11	CERAMIC CHIP 470PF 10% 50V		R163	1-216-095-00	METAL GLAZE 82K 5% 1/10W	
C172	1-163-005-11	CERAMIC CHIP 470PF 10% 50V		R164	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
C177	1-102-074-00	CERAMIC 0.001MF 10% 50V		R165	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
C181	1-101-004-00	CERAMIC 0.01MF 50V		R167	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W	
		<IC>		R168	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
IC103	8-759-979-62	IC-PCF8574		R169	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W	
		<COIL>		R181	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
L100	1-410-683-31	INDUCTOR 560UH		R182	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
L101	1-408-225-00	INDUCTOR 3.3UH		R193	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
L102	1-408-413-00	INDUCTOR 22UH		R194	1-216-017-00	METAL GLAZE 47 5% 1/10W	
L107	1-408-397-00	INDUCTOR 1UH		R195	1-216-017-00	METAL GLAZE 47 5% 1/10W	
				R196	1-216-113-00	METAL GLAZE 470K 5% 1/10W	
						<TUNER>	
				TU101A 1-465-301-11	TUNER, ET (UV-816(PLL))		
						<IF BLOCK>	
				VIF101	1-466-154-11	IF BLOCK (IFG-389S)	

				*A-1638-013-A	C BOARD, COMPLETE *****		
				*4-379-160-01	COVER (REAR LID), CV		
				*4-379-167-01	COVER (MAIN), CV		

C

D

The components identified by shading and mark Δ are critical for safety.
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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
<CONNECTOR>							
C71	*1-506-371-00	PIN, CONNECTOR 2P		R708	1-249-401-11	CARBON	47 5% 1/4W
C72	*1-568-881-51	PIN, CONNECTOR 6P		R709	1-202-844-00	SOLID	330K 10% 1/2W
C81	*1-568-878-51	PIN, CONNECTOR 3P		R710	1-215-465-00	METAL	68K 1% 1/4W
C82	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P		R711	1-249-426-11	CARBON	5.6K 5% 1/4W
<CAPACITOR>				R712	1-249-417-11	CARBON	1K 5% 1/4W
C703	1-102-820-00	CERAMIC	330PF 5% 50V	R713	1-215-471-00	METAL	120K 1% 1/4W
C704	1-102-116-00	CERAMIC	680PF 10% 50V	R714	1-216-486-00	METAL OXIDE	8.2K 5% 3W F
C705	1-102-980-00	CERAMIC	270PF 5% 50V	R715	1-202-824-00	SOLID	3.3K 10% 1/2W
C706	1-102-116-00	CERAMIC	680PF 10% 50V	R716	1-249-409-11	CARBON	220 5% 1/4W
C707	1-162-116-00	CERAMIC	680PF 10% 2KV	R717	1-249-415-11	CARBON	680 5% 1/4W
C708	1-162-114-00	CERAMIC	0.0047MF 2KV	R718	1-202-814-11	SOLID	33K 10% 1/2W
C709	1-102-116-00	CERAMIC	680PF 10% 50V	R719	1-249-401-11	CARBON	47 5% 1/4W
C710	1-123-947-00	ELECT	10MF 20% 250V	R720	1-249-423-11	CARBON	3.3K 5% 1/4W
C711	1-101-880-00	CERAMIC	47PF 5% 50V	R721	1-202-842-11	SOLID	220K 10% 1/2W
C712	1-102-820-00	CERAMIC	330PF 5% 50V	R722	1-202-848-00	SOLID	680K 10% 1/2W
C714	1-124-360-00	ELECT	1000MF 20% 16V	R723	1-249-417-11	CARBON	1K 5% 1/4W
C716	1-162-622-11	CERAMIC	330PF 10% 400V	R724	1-202-846-00	SOLID	470K 10% 1/2W
C717	1-102-114-00	CERAMIC	470PF 10% 50V	R725	1-202-838-00	SOLID	100K 10% 1/2W
C718	1-102-114-00	CERAMIC	470PF 10% 50V	R726	1-202-824-00	SOLID	3.3K 10% 1/2W
C719	1-102-114-00	CERAMIC	470PF 10% 50V	R727	1-249-409-11	CARBON	220 5% 1/4W
<DIODE>				R728	1-216-347-11	METAL OXIDE	0.68 5% 1W F
D701	8-719-110-14	DIODE RD9.1ES-B3		R729	1-249-416-11	CARBON	820 5% 1/4W
D702	8-719-911-19	DIODE 1SS119		R730	1-249-401-11	CARBON	47 5% 1/4W
D703	8-719-911-19	DIODE 1SS119		R731	1-249-423-11	CARBON	3.3K 5% 1/4W
D704	8-719-911-19	DIODE 1SS119		R732	1-249-415-11	CARBON	680 5% 1/4W
D705	8-719-911-19	DIODE 1SS119		R733	1-249-415-11	CARBON	680 5% 1/4W
D706	8-719-911-19	DIODE 1SS119		R734	1-249-405-11	CARBON	100 5% 1/4W
D707	8-719-911-19	DIODE 1SS119		R735	1-215-493-00	METAL	1M 1% 1/4W
D708	8-719-911-19	DIODE 1SS119		R736	1-216-486-00	METAL OXIDE	8.2K 5% 3W F
D709	8-719-911-19	DIODE 1SS119		R737	1-215-485-00	METAL	470K 1% 1/4W
D710	8-719-911-19	DIODE 1SS119		R739	1-249-417-11	CARBON	1K 5% 1/4W
D711	8-719-300-33	DIODE RU-3AM		<VARIABLE RESISTOR>			
D713	8-719-911-19	DIODE 1SS119		RV701	1-230-641-11	RES, ADJ, METAL GLAZE 2.2M	
<JACK>				RV702A	1-230-619-11	RES, ADJ, METAL GLAZE 110M	
J701	1-526-990-11	SOCKET, PICTURE TUBE		RV703	1-237-749-11	RES, ADJ, CARBON 2200	
<COIL>				RV704	1-237-749-11	RES, ADJ, CARBON 2200	
L704	1-410-878-11	INDUCTOR	33UH	*****			
<TRANSISTOR>				A-1642-032-A	D BOARD, COMPLETE		
Q702	8-729-119-78	TRANSISTOR 2SC2785-HFE		*****			
Q703	8-729-906-70	TRANSISTOR BF871		4-200-001-01	HOLDER, IC		
Q704	8-729-200-17	TRANSISTOR 2SA1091-0		4-201-023-01	SPACER, INSULATING		
Q705	8-729-119-78	TRANSISTOR 2SC2785-HFE		*4-341-751-01	EYELET		
Q706	8-729-906-70	TRANSISTOR BF871		*4-341-752-01	EYELET		
Q707	8-729-200-17	TRANSISTOR 2SA1091-0		*4-368-683-01	SPRING		
Q708	8-729-119-78	TRANSISTOR 2SC2785-HFE		<CAPACITOR>			
Q709	8-729-906-70	TRANSISTOR BF871		C002	1-163-205-00	CERAMIC CHIP	0.001MF 5% 50V
Q710	8-729-200-17	TRANSISTOR 2SA1091-0		C003	1-124-925-11	ELECT	2.2MF 20% 50V
<RESISTOR>				C004	1-124-120-11	ELECT	220MF 20% 16V
R704	1-216-486-00	METAL OXIDE	8.2K 5% 3W F	C005	1-124-903-11	ELECT	1MF 20% 50V
R705	1-202-824-00	SOLID	3.3K 10% 1/2W	C008	1-163-117-00	CERAMIC CHIP	100PF 5% 50V
R706	1-249-409-11	CARBON	220 5% 1/4W	C009	1-163-117-00	CERAMIC CHIP	100PF 5% 50V
R707	1-249-412-11	CARBON	390 5% 1/4W	C010	1-124-120-11	ELECT	220MF 20% 16V
				C011	1-164-232-11	CERAMIC CHIP	0.01MF 5% 50V
				C013	1-137-098-11	FILM	0.1MF 10% 100V
				C014	1-137-098-11	FILM	0.1MF 10% 100V
				C015	1-124-902-00	ELECT	0.47MF 20% 50V
				C016	1-163-141-00	CERAMIC CHIP	0.001MF 5% 50V
				C017	1-137-098-11	FILM	0.1MF 10% 100V
				C018	1-163-127-00	CERAMIC CHIP	270PF 5% 50V

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK	
C019	1-137-094-11	FILM 0.047MF	10%	100V	C605	1-124-484-11	ELECT 220MF 20% 35V	
C021	1-163-117-00	CERAMIC CHIP 100PF	5%	50V	C606	1-163-137-00	CERAMIC CHIP 680PF 5% 50V	
C023	1-163-117-00	CERAMIC CHIP 100PF	5%	50V	C607	1-137-028-11	FILM 1MF 10% 63V	
C024	1-163-117-00	CERAMIC CHIP 100PF	5%	50V	C608	1-124-927-11	ELECT 4.7MF 20% 50V	
C027	1-124-910-11	ELECT 47MF	20%	50V	C611	1-124-910-11	ELECT 47MF 20% 50V	
C030	1-163-038-00	CERAMIC CHIP 0.1MF		25V	C612	1-108-680-11	MYLAR 0.001MF 10% 100V	
C031	1-163-081-00	CERAMIC CHIP 0.22MF		25V	C613	1-136-539-11	FILM 0.0022MF 3% 2KV	
C032	1-163-081-00	CERAMIC CHIP 0.22MF		25V	C614	1-102-030-00	CERAMIC 330PF 10% 500V	
C033	1-163-181-00	CERAMIC CHIP 100PF	5%	50V	C615	1-128-142-11	ELECT 1500MF 20% 25V	
C034	1-163-038-00	CERAMIC CHIP 0.1MF		25V	C616	1-102-030-00	CERAMIC 330PF 10% 500V	
C251	1-124-903-11	ELECT 1MF	20%	50V	C617	1-124-122-11	ELECT 100MF 20% 50V	
C252	1-126-233-11	ELECT 22MF	20%	50V	C618	1-162-115-00	CERAMIC 330PF 10% 2KV	
C253	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V	C619	1-128-320-11	ELECT 2200MF 20% 16V	
C254	1-137-098-11	FILM 0.1MF	10%	100V	C620	1-136-173-00	FILM 0.47MF 5% 50V	
C255	1-124-636-00	ELECT 3300MF	20%	25V	C621	1-124-347-00	ELECT 100MF 20% 160V	
C261	1-124-903-11	ELECT 1MF	20%	50V	C622	1-128-320-11	ELECT 2200MF 20% 16V	
C262	1-126-233-11	ELECT 22MF	20%	50V	C623	1-124-910-11	ELECT 47MF 20% 50V	
C263	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V	C624	1-124-122-11	ELECT 100MF 20% 50V	
C264	1-137-098-11	FILM 0.1MF	10%	100V	C625	1-124-360-00	ELECT 1000MF 20% 16V	
C265	1-124-564-11	ELECT 4700MF	20%	25V	C626	1-124-907-11	ELECT 10MF 20% 50V	
C270	1-137-035-11	FILM 0.47MF	10%	100V	C627	1-163-009-11	CERAMIC CHIP 0.001MF 10% 50V	
C274	1-137-035-11	FILM 0.47MF	10%	100V	C631	1-124-927-11	ELECT 4.7MF 20% 50V	
C501	1-124-927-11	ELECT 4.7MF	20%	50V	C632	1-163-009-11	CERAMIC CHIP 0.001MF 10% 50V	
C502	1-124-927-11	ELECT 4.7MF	20%	50V	C633	1-163-117-00	CERAMIC CHIP 100PF 5% 50V	
C503	1-137-049-11	FILM 0.015MF	10%	400V	C801	1-126-105-11	ELECT 1000MF 20% 35V	
C504	1-163-121-00	CERAMIC CHIP 150PF	5%	50V	C802	1-102-030-00	CERAMIC 330PF 10% 500V	
C505	1-108-794-11	MYLAR 0.0015MF	5%	50V	C804	1-123-948-00	ELECT 22MF 20% 250V	
C506	1-137-102-11	FILM 0.022MF	10%	250V	C805	1-162-114-00	CERAMIC 0.0047MF 2KV	
C507	1-137-033-11	FILM 0.33MF	10%	100V	C806	1-137-098-11	FILM 0.1MF 10% 100V	
C508	1-137-102-11	FILM 0.022MF	10%	250V	C807	1-106-395-00	MYLAR 0.15MF 10% 200V	
C509	1-137-098-11	FILM 0.1MF	10%	100V	C810	1-123-024-21	ELECT 33MF 160V	
C510	1-161-959-00	CERAMIC 22PF	10%	500V	C811	1-136-113-00	FILM 2MF 5% 200V	
C511	1-108-686-11	MYLAR 0.0033MF	10%	100V	C812	1-124-634-11	ELECT 1MF 20% 250V	
C512	1-137-098-11	FILM 0.1MF	10%	100V	C813	1-102-212-00	CERAMIC 820PF 10% 500V	
C513	1-163-125-00	CERAMIC CHIP 220PF	5%	50V	C814	1-161-731-51	CERAMIC 0.001MF 10% 2KV	
C514	1-137-031-11	FILM 0.22MF	10%	100V	C815	1-136-540-11	FILM 0.82MF 5% 200V	
C515	1-124-903-11	ELECT 1MF	20%	50V	C817	1-136-591-11	FILM 0.017MF 3% 1.4KV	
C516	1-108-680-11	MYLAR 0.001MF	10%	100V	C818	1-129-721-51	FILM 0.039MF 10% 630V	
C517	1-124-252-00	ELECT 0.33MF	20%	50V	C819	1-161-731-51	CERAMIC 0.001MF 10% 2KV	
C518	1-124-902-00	ELECT 0.47MF	20%	50V	C820	1-137-046-11	FILM 0.0082MF 10% 400V	
C519	1-136-171-00	FILM 0.33MF	5%	50V	C821	1-162-134-51	CERAMIC 470PF 10% 2KV	
C520	1-164-161-11	CERAMIC CHIP 0.0022MF	10%	50V	C822	1-163-005-11	CERAMIC CHIP 470PF 10% 50V	
C521	1-137-098-11	FILM 0.1MF	10%	100V	C823	1-137-043-11	FILM 0.0047MF 10% 400V	
C522	1-124-122-11	ELECT 100MF	20%	50V	C824	1-102-212-00	CERAMIC 820PF 10% 500V	
C523	1-108-680-11	MYLAR 0.001MF	10%	100V	C825	1-137-102-11	FILM 0.022MF 10% 250V	
C524	1-108-798-11	MYLAR 0.0033MF	5%	50V	C1601	1-136-518-11	FILM 0.33MF 20% 300V	
C525	1-163-117-00	CERAMIC CHIP 100PF	5%	50V	C1602	1-136-519-11	FILM 0.47MF 20% 300V	
C526	1-163-101-00	CERAMIC CHIP 22PF	5%	50V	C1603	1-164-246-51	CERAMIC 0.0022MF 20% 400V	
C527	1-137-098-11	FILM 0.1MF	10%	100V	C1605	1-164-246-51	CERAMIC 0.0022MF 20% 400V	
C531	1-124-190-00	ELECT 680MF	10%	25V	C1607	1-161-964-61	CERAMIC 0.0047MF 250V	
C532	1-124-122-11	ELECT 100MF	20%	50V				
C533	1-137-096-11	FILM 0.068MF	10%	100V				
C534	1-124-120-11	ELECT 220MF	20%	16V				
C536	1-131-365-00	TANTALUM 10MF	10%	16V				
C537	1-124-903-11	ELECT 1MF	20%	50V				
C538	1-108-680-11	MYLAR 0.001MF	10%	100V				
C539	1-163-129-00	CERAMIC CHIP 330PF	5%	50V				
C540	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V				
C592	1-124-122-11	ELECT 100MF	20%	50V				
C593	1-163-129-00	CERAMIC CHIP 330PF	5%	50V				
C601	1-161-964-61	CERAMIC 0.0047MF		250V				
C602	1-161-964-61	CERAMIC 0.0047MF		250V				
C603	1-161-964-61	CERAMIC 0.0047MF		250V				
C604	1-125-318-11	ELECT (BLOCK) 220MF	20%	400V				

REF.NO.	PART NO.	DESCRIPTION	REMARK
<FILTER>			
CF001	1-577-364-11	VIBRATOR, CERAMIC	
CF501	1-567-888-11	OSCILLATOR, CERAMIC	
<CONNECTOR>			
D1	*1-568-881-51	PIN, CONNECTOR 6P	
D2	*1-568-882-51	PIN, CONNECTOR 7P	
D11	*1-565-394-11	PIN, BOARD TO BOARD CONNECTOR	
D12	*1-565-394-11	PIN, BOARD TO BOARD CONNECTOR	
D18	*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)	

<FILTER>

CF001 1-577-364-11 VIBRATOR, CERAMIC
CF501 1-567-888-11 OSCILLATOR, CERAMIC

<CONNECTOR>

D1 *1-568-881-51 PIN, CONNECTOR 6P
D2 *1-568-882-51 PIN, CONNECTOR 7P
D11 *1-565-394-11 PIN, BOARD TO BOARD CONNECTOR
D12 *1-565-394-11 PIN, BOARD TO BOARD CONNECTOR
D18 *1-560-290-00 PLUG, CONNECTOR (2.5MM PITCH)

D

The components identified by shading and mark **Δ** are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
D21	*1-565-394-11	PIN, BOARD TO BOARD CONNECTOR		D801	8-719-300-33	DIODE RU-3AM	
D22	*1-565-394-11	PIN, BOARD TO BOARD CONNECTOR		D802	8-719-300-33	DIODE RU-3AM	
D31	*1-565-394-11	PIN, BOARD TO BOARD CONNECTOR		D803	8-719-976-64	DIODE RGP02-17	
D32	*1-565-394-11	PIN, BOARD TO BOARD CONNECTOR		D804	8-719-911-55	DIODE U05G	
D33	*1-565-394-11	PIN, BOARD TO BOARD CONNECTOR		D805	8-719-911-55	DIODE U05G	
				D806	8-719-945-80	DIODE ERC06-15S	
D41	*1-566-367-11	CONNECTOR, HINGE (RECEPTACLE)		D807	8-719-945-80	DIODE ERC06-15S	
D44	*1-568-881-51	PIN, CONNECTOR 6P		D808	8-719-900-26	DIODE ERD29-08J	
D45	*1-568-881-51	PIN, CONNECTOR 6P					
D51	*1-566-367-11	CONNECTOR, HINGE (RECEPTACLE)					
D62	*1-565-395-11	PIN, CONNECTOR 3P					
D65	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P					
D66	*1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P					
D82	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P					
D83	*1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P					
D84	*1-568-536-11	PLUG (MINIATURE DY) 6P					
D88	*1-568-878-51	PIN, CONNECTOR 3P					
D801	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P					
		<DIODE>					
D003	8-719-911-19	DIODE 1SS119					
D005	8-719-109-89	DIODE RD5.6ES-B2					
D006	8-719-982-24	DIODE MTZJ-33A					
D007	8-719-982-08	DIODE MTZJ-3.9B					
D009	8-719-109-89	DIODE RD5.6ES-B2					
D010	8-719-921-54	DIODE MTZJ-6.2B					
D011	8-719-921-54	DIODE MTZJ-6.2B					
D012	8-719-911-19	DIODE 1SS119					
D013	8-719-109-97	DIODE RD6.8ES-B2					
D271	8-719-921-88	DIODE MTZJ-13B					
D272	8-719-911-19	DIODE 1SS119					
D501	8-719-911-19	DIODE 1SS119					
D504	8-719-911-55	DIODE U05G					
D508	8-719-911-19	DIODE 1SS119					
D509	8-719-911-19	DIODE 1SS119					
D511	8-719-911-55	DIODE U05G					
D512	8-719-911-55	DIODE U05G					
D513	8-719-010-34	DIODE UZ-4.7BSC					
D514	8-719-911-19	DIODE 1SS119					
D515	8-719-911-19	DIODE 1SS119					
D601 Δ	8-719-510-63	DIODE D4SB60L-F					
D602	8-719-300-33	DIODE RU-3AM					
D603	8-719-911-55	DIODE U05G					
D604	8-719-911-55	DIODE U05G					
D605	8-719-911-55	DIODE U05G					
D606	8-719-300-33	DIODE RU-3AM					
D607	8-719-300-33	DIODE RU-3AM					
D608	8-719-300-33	DIODE RU-3AM					
D609	8-719-982-24	DIODE MTZJ-33A					
D610	8-719-300-59	DIODE CTU-12S					
D611	8-719-900-26	DIODE ERD29-08J					
D612	8-719-300-59	DIODE CTU-12S					
D613	8-719-979-85	DIODE EGP20G					
D614	8-719-979-85	DIODE EGP20G					
D616	8-719-921-54	DIODE MTZJ-6.2B					
D617	8-719-911-19	DIODE 1SS119					
D618	8-719-109-89	DIODE RD5.6ES-B2					
D619	8-719-982-24	DIODE MTZJ-33A					
D620	8-719-800-76	DIODE 1SS226					
D621	8-719-982-24	DIODE MTZJ-33A					
D622	8-719-911-19	DIODE 1SS119					
D623	8-719-911-19	DIODE 1SS119					
D624	8-719-911-19	DIODE 1SS119					
D630	8-719-921-91	DIODE MTZJ-15A					

D

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
Q003	8-729-216-22	TRANSISTOR 2SA1162-G		R032	1-216-073-00	METAL GLAZE 10K 5%	1/10W
Q004	8-729-216-22	TRANSISTOR 2SA1162-G		R033	1-216-073-00	METAL GLAZE 10K 5%	1/10W
Q005	8-729-901-01	TRANSISTOR DTC144EK					
Q006	8-729-901-01	TRANSISTOR DTC144EK		R034	1-216-077-00	METAL GLAZE 15K 5%	1/10W
Q007	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R035	1-216-081-00	METAL GLAZE 22K 5%	1/10W
Q008	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R036	1-216-083-00	METAL GLAZE 27K 5%	1/10W
Q009	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R037	1-216-069-00	METAL GLAZE 6.8K 5%	1/10W
Q010	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R038	1-216-069-00	METAL GLAZE 6.8K 5%	1/10W
Q251	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q261	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R039	1-216-081-00	METAL GLAZE 22K 5%	1/10W
Q271	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R040	1-216-077-00	METAL GLAZE 15K 5%	1/10W
Q502	8-729-216-22	TRANSISTOR 2SA1162-G		R041	1-216-073-00	METAL GLAZE 10K 5%	1/10W
Q505	8-729-140-96	TRANSISTOR 2SD774-34		R042	1-216-049-00	METAL GLAZE 1K 5%	1/10W
Q506	8-729-140-97	TRANSISTOR 2SB734-34		R043	1-216-041-00	METAL GLAZE 470 5%	1/10W
Q507	8-729-216-22	TRANSISTOR 2SA1162-G					
Q598	8-729-216-22	TRANSISTOR 2SA1162-G		R044	1-216-097-00	METAL GLAZE 100K 5%	1/10W
Q601	8-729-122-03	TRANSISTOR 2SA1220A-P		R045	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W
Q602	8-729-209-02	TRANSISTOR 2SD1548-LB		R046	1-216-095-00	METAL GLAZE 82K 5%	1/10W
Q603	8-729-122-03	TRANSISTOR 2SA1220A-P		R047	1-216-073-00	METAL GLAZE 10K 5%	1/10W
Q604	8-729-216-22	TRANSISTOR 2SA1162-G		R048	1-216-073-00	METAL GLAZE 10K 5%	1/10W
Q605	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q606	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R049	1-216-073-00	METAL GLAZE 10K 5%	1/10W
Q607	8-729-920-92	TRANSISTOR 2SD2096-EF		R050	1-216-067-00	METAL GLAZE 5.6K 5%	1/10W
Q608	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R051	1-216-041-00	METAL GLAZE 470 5%	1/10W
Q609	8-729-320-62	TRANSISTOR 2SD789-34		R052	1-216-049-00	METAL GLAZE 1K 5%	1/10W
Q801	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R053	1-216-049-00	METAL GLAZE 1K 5%	1/10W
Q804	8-729-304-50	TRANSISTOR 2SD1941-06					
Q805	8-729-119-80	TRANSISTOR 2SC2688-LK		R054	1-216-049-00	METAL GLAZE 1K 5%	1/10W
<RESISTOR>				R055	1-216-037-00	METAL GLAZE 330 5%	1/10W
JR1	1-216-296-00	METAL GLAZE 0 5%	1/8W	R056	1-216-073-00	METAL GLAZE 10K 5%	1/10W
JR3	1-216-296-00	METAL GLAZE 0 5%	1/8W	R057	1-216-025-00	METAL GLAZE 100 5%	1/10W
JR4	1-216-295-00	METAL GLAZE 0 5%	1/10W	R058	1-216-049-00	METAL GLAZE 1K 5%	1/10W
JR7	1-216-296-00	METAL GLAZE 0 5%	1/8W				
R001	1-216-041-00	METAL GLAZE 470 5%	1/10W	R059	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R002	1-216-041-00	METAL GLAZE 470 5%	1/10W	R060	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R003	1-216-198-00	METAL GLAZE 1K 5%	1/8W	R061	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R004	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R062	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R005	1-216-081-00	METAL GLAZE 22K 5%	1/10W	R063	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R006	1-216-073-00	METAL GLAZE 10K 5%	1/10W				
R007	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	R064	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R008	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R065	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R009	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R066	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R010	1-216-041-00	METAL GLAZE 470 5%	1/10W	R067	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R012	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R068	1-216-174-00	METAL GLAZE 100 5%	1/8W
R013	1-216-073-00	METAL GLAZE 10K 5%	1/10W				
R014	1-216-085-00	METAL GLAZE 33K 5%	1/10W	R069	1-216-174-00	METAL GLAZE 100 5%	1/8W
R015	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W	R070	1-216-198-00	METAL GLAZE 1K 5%	1/8W
R016	1-216-085-00	METAL GLAZE 33K 5%	1/10W	R071	1-216-198-00	METAL GLAZE 1K 5%	1/8W
R017	1-216-748-11	METAL GLAZE 39K 5%	1/10W	R072	1-216-222-00	METAL GLAZE 10K 5%	1/8W
R018	1-216-095-00	METAL GLAZE 82K 5%	1/10W	R073	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R019	1-216-025-00	METAL GLAZE 100 5%	1/10W				
R020	1-216-025-00	METAL GLAZE 100 5%	1/10W	R075	1-216-041-00	METAL GLAZE 470 5%	1/10W
R021	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	R076	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R022	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	R078	1-216-198-00	METAL GLAZE 1K 5%	1/8W
R024	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R079	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R025	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R080	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R026	1-216-182-00	METAL GLAZE 220 5%	1/8W				
R027	1-216-025-00	METAL GLAZE 100 5%	1/10W	R081	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R028	1-216-025-00	METAL GLAZE 100 5%	1/10W	R083	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R029	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R084	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R030	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R085	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R031	1-216-081-00	METAL GLAZE 22K 5%	1/10W	R086	1-216-049-00	METAL GLAZE 1K 5%	1/10W
				R087	1-216-035-00	METAL GLAZE 270 5%	1/10W
				R088	1-216-059-00	METAL GLAZE 2.7K 5%	1/10W
				R093	1-216-073-00	METAL GLAZE 10K 5%	1/10W
				R094	1-216-073-00	METAL GLAZE 10K 5%	1/10W
				R095	1-216-073-00	METAL GLAZE 10K 5%	1/10W
				R096	1-216-073-00	METAL GLAZE 10K 5%	1/10W
				R098	1-216-049-00	METAL GLAZE 1K 5%	1/10W
				R251	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
				R252	1-216-039-00	METAL GLAZE 390 5%	1/10W
				R253	1-216-073-00	METAL GLAZE 10K 5%	1/10W
				R254	1-216-357-00	METAL OXIDE 4.7 5%	1W F

D

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R255	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R553	1-215-869-11	METAL OXIDE	1K 5% 1W
R256	1-216-115-00	METAL GLAZE	560K 5% 1/10W	R554	1-216-037-00	METAL GLAZE	330 5% 1/10W
R257	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R555	1-216-129-00	METAL GLAZE	2.2M 5% 1/10W
R258	1-215-869-11	METAL OXIDE	1K 5% 1W F	R556	1-216-025-00	METAL GLAZE	100 5% 1/10W
R259	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R557	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R261	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R558	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R262	1-216-039-00	METAL GLAZE	390 5% 1/10W	R559	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
R263	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R560	1-216-037-00	METAL GLAZE	330 5% 1/10W
R264	1-216-357-00	METAL OXIDE	4.7 5% 1W F	R561	1-216-107-00	METAL GLAZE	270K 5% 1/10W
R265	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R570	1-216-045-00	METAL GLAZE	680 5% 1/10W
R266	1-216-115-00	METAL GLAZE	560K 5% 1/10W	P591	1-216-047-00	METAL GLAZE	820 5% 1/10W
R267	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R592	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R268	1-215-869-11	METAL OXIDE	1K 5% 1W F	R593	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W
R269	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R594	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W
R270	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R597	1-216-041-00	METAL GLAZE	470 5% 1/10W
R271	1-216-045-00	METAL GLAZE	680 5% 1/10W	R598	1-215-900-11	METAL OXIDE	22K 5% 2W F
R272	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R600	1-249-381-11	CARBON	1 5% 1/4W
R273	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R601	1-216-353-00	METAL OXIDE	2.2 5% 1W F
R274	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R603	1-216-469-11	METAL OXIDE	12 5% 3W F
R500	1-216-115-00	METAL GLAZE	560K 5% 1/10W	R604	1-216-025-00	METAL GLAZE	100 5% 1/10W
R501	1-216-041-00	METAL GLAZE	470 5% 1/10W	R605	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R502	1-216-033-00	METAL GLAZE	220 5% 1/10W	R606	1-216-051-00	METAL GLAZE	1.2K 5% 1/10W
R503	1-216-035-00	METAL GLAZE	270 5% 1/10W	R607	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W
R504	1-249-420-11	CARBON	1.8K 5% 1/4W	R608	1-216-488-11	METAL OXIDE	18K 5% 3W F
R505	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R609	1-216-007-00	METAL GLAZE	18 5% 1/10W
R506	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W	R610	1-244-941-00	CARBON	680K 5% 1/2W
R509	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W	R611	1-216-015-00	METAL GLAZE	39 5% 1/10W
R510	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W	R612	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R514	1-216-033-00	METAL GLAZE	220 5% 1/10W	R613	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R515	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R614	1-205-758-11	WIREWOUND	100 10% 10W F
R517	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R616	1-216-099-00	METAL GLAZE	120K 5% 1/10W
R518	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R617	1-216-037-00	METAL GLAZE	330 5% 1/10W
R519	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R618	1-216-431-11	METAL OXIDE	560 5% 1W F
R520	1-216-037-00	METAL GLAZE	330 5% 1/10W	R619	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R521	1-216-025-00	METAL GLAZE	100 5% 1/10W	R620	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R522	1-215-469-00	METAL	100K 1% 1/4W	R621	1-216-077-00	METAL GLAZE	15K 5% 1/10W
R523	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R622	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R524	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R623	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R526	1-249-409-11	CARBON	220 5% 1/4W F	R624	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W
R527	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R625	1-215-865-11	METAL OXIDE	220 5% 1W F
R528	1-216-031-00	METAL GLAZE	180 5% 1/10W	R626	1-216-037-00	METAL GLAZE	330 5% 1/10W
R529	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W	R628	1-216-001-00	METAL GLAZE	10 5% 1/10W
R530	1-249-448-11	CARBON	1.2 5% 1/4W F	R629	1-216-037-00	METAL GLAZE	330 5% 1/10W
R531	1-216-099-00	METAL GLAZE	120K 5% 1/10W	R633	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R532	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R634	1-216-430-11	METAL OXIDE	390 5% 1W F
R533	1-216-295-00	METAL GLAZE	0 5% 1/10W	R635	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R534	1-216-119-00	METAL GLAZE	820K 5% 1/10W	R636	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R535	1-249-749-00	CARBON	2.2M 5% 1/4W	R643	1-217-189-21	WIREWOUND	0.12 5% 2W F
R536	1-216-129-00	METAL GLAZE	2.2M 5% 1/10W	R651	1-216-025-00	METAL GLAZE	100 5% 1/10W
R537	1-216-083-00	METAL GLAZE	27K 5% 1/10W	R653	1-205-758-11	WIREWOUND	100 10% 10W F
R538	1-216-101-00	METAL GLAZE	150K 5% 1/10W	R802	1-249-443-11	CARBON	0.47 5% 1/4W F
R539	1-216-101-00	METAL GLAZE	150K 5% 1/10W	R805	1-249-448-11	CARBON	1.2 5% 1/4W F
R540	1-216-013-00	METAL GLAZE	33 5% 1/10W	R806	1-216-093-00	METAL GLAZE	68K 5% 1/10W
R541	1-216-091-00	METAL GLAZE	56K 5% 1/10W	R807	1-215-869-11	METAL OXIDE	1K 5% 1W F
R542	1-216-308-00	METAL GLAZE	4.7 5% 1/10W	R809	1-202-821-11	SOLID	1.8K 10% 1/2W
R543	1-249-451-11	CARBON	2.2 5% 1/4W	R810	1-202-818-00	SOLID	1K 10% 1/2W
R544	1-247-745-11	CARBON	330 5% 1/2W	R811	1-215-882-00	METAL OXIDE	22 5% 2W F
R545	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R812	1-247-281-00	CARBON	51K 5% 1/2W
R546	1-216-083-00	METAL GLAZE	27K 5% 1/10W	R815	1-215-884-11	METAL OXIDE	47 5% 2W F
R547	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R816	1-215-868-00	METAL OXIDE	680 5% 1W F
R548	1-216-349-00	METAL OXIDE	1 5% 1W F	R817	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R549	1-216-454-11	METAL OXIDE	390 5% 2W F	R820	1-249-403-11	CARBON	68 5% 1/4W
R550	1-216-095-00	METAL GLAZE	82K 5% 1/10W	R821	1-247-725-11	CARBON	10K 5% 1/4W F
R551	1-216-129-00	METAL GLAZE	2.2M 5% 1/10W				

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

KV-A2911D
RM-816

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VM

V

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R822 Δ	1-217-778-61	FUSIBLE	1K 5% 1W F	R753	1-249-414-11	CARBON	560 5% 1/4W
R825	1-216-345-11	METAL OXIDE	0.47 5% 1W F	R754	1-249-434-11	CARBON	27K 5% 1/4W
R826	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R755	1-249-405-11	CARBON	100 5% 1/4W
R827	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R756	1-249-419-11	CARBON	1.5K 5% 1/4W
R828	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W	R757	1-249-405-11	CARBON	100 5% 1/4W
R829	1-216-051-00	METAL GLAZE	1.2K 5% 1/10W	R758	1-249-409-11	CARBON	220 5% 1/4W
R831	1-249-451-11	CARBON	2.2 5% 1/4W	R760	1-249-411-11	CARBON	330 5% 1/4W
R1601 Δ	1-246-513-75	CARBON	47K 5% 1/4W	R761	1-249-429-11	CARBON	10K 5% 1/4W
R1602 Δ	1-244-945-91	CARBON	1M 5% 1/2W	R762	1-247-895-00	CARBON	470K 5% 1/4W
R1603 Δ	1-217-328-11	WIREWOUND	2.7 10% 7W F	R763	1-249-429-11	CARBON	10K 5% 1/4W
R1604 Δ	1-246-513-75	CARBON	47K 5% 1/4W	R764	1-249-455-11	CARBON	4.7 5% 1/4W F
R1605 Δ	1-218-265-91	METAL GLAZE	8.2M 5% 1W	R765	1-249-455-11	CARBON	4.7 5% 1/4W F
R5501	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R766	1-247-753-11	CARBON	1.2K 5% 1/2W
R5503	1-216-001-00	METAL GLAZE	10 5% 1/10W	R767	1-247-751-11	CARBON	820 5% 1/2W
R5504	1-216-121-00	METAL GLAZE	1M 5% 1/10W	R768	1-215-887-00	METAL OXIDE	150 5% 2W F
R5505	1-216-001-00	METAL GLAZE	10 5% 1/10W	R769 Δ	1-212-889-51	FUSIBLE	220 5% 1/4W F
R5506	1-216-075-00	METAL GLAZE	12K 5% 1/10W	<CONNECTOR>			
<VARIABLE RESISTOR>				VM73	*1-568-878-51	PIN, CONNECTOR 3P	
RV501	1-238-013-11	RES, ADJ, CARBON 2.2K		VM88	*1-568-878-51	PIN, CONNECTOR 3P	
RV502	1-238-016-11	RES, ADJ, CARBON 10K		*****			
RV601	1-238-011-11	RES, ADJ, CARBON 470		A-1645-013-A V BOARD, COMPLETE			
<SPARK GAP>				*****			
SG801	1-519-422-11	GAP, SPARK		<CAPACITOR>			
<THERMISTOR>				C1	1-126-101-11	ELECT	100MF 20% 16V
THP601 Δ	1-808-059-32	THERMISTOR, POSITIVE		C2	1-163-038-00	CERAMIC CHIP	0.1MF 25V
*****				C3	1-124-120-11	ELECT	220MF 20% 16V
*1-634-193-11	VM BOARD	*****		C4	1-163-077-00	CERAMIC CHIP	0.1MF 50V
<CAPACITOR>				C5	1-124-120-11	ELECT	220MF 20% 16V
C751	1-101-361-00	CERAMIC	150PF 5% 50V	C6	1-163-038-00	CERAMIC CHIP	0.1MF 25V
C752	1-108-629-11	MYLAR	0.018MF 10% 100V	C10	1-163-038-00	CERAMIC CHIP	0.1MF 25V
C753	1-137-047-11	FILM	0.01MF 10% 400V	C11	1-163-038-00	CERAMIC CHIP	0.1MF 25V
C754	1-102-980-00	CERAMIC	270PF 5% 50V	C12	1-163-038-00	CERAMIC CHIP	0.1MF 25V
C757	1-108-692-11	MYLAR	0.01MF 10% 200V	C13	1-163-038-00	CERAMIC CHIP	0.1MF 25V
C759	1-124-907-11	ELECT	10MF 20% 50V	C14	1-124-927-11	ELECT	4.7MF 20% 50V
C760	1-124-917-11	ELECT	33MF 20% 50V	C15	1-124-927-11	ELECT	4.7MF 20% 50V
C761	1-101-006-00	CERAMIC	0.047MF 50V	C16	1-163-141-00	CERAMIC CHIP	0.001MF 5% 50V
C762	1-137-047-11	FILM	0.01MF 10% 400V	C17	1-163-141-00	CERAMIC CHIP	0.001MF 5% 50V
<COIL>				C18	1-163-141-00	CERAMIC CHIP	0.001MF 5% 50V
L751	1-408-413-00	INDUCTOR	22UH	C26	1-163-038-00	CERAMIC CHIP	0.1MF 25V
L770	1-410-665-31	INDUCTOR	15UH	C27	1-163-117-00	CERAMIC CHIP	100PF 5% 50V
<TRANSISTOR>				C28	1-163-117-00	CERAMIC CHIP	100PF 5% 50V
Q751	8-729-119-78	TRANSISTOR 2SC2785-HFE		C29	1-163-117-00	CERAMIC CHIP	100PF 5% 50V
Q752	8-729-119-78	TRANSISTOR 2SC2785-HFE		C32	1-163-038-00	CERAMIC CHIP	0.1MF 25V
Q753	8-729-140-97	TRANSISTOR 2SB734-34		C33	1-163-038-00	CERAMIC CHIP	0.1MF 25V
Q754	8-729-140-96	TRANSISTOR 2SD774-34		<CONNECTOR>			
<RESISTOR>				CNV1	*1-565-393-11	CONNECTOR, BOARD TO BOARD	
R751	1-249-418-11	CARBON	1.2K 5% 1/4W	CNV2	*1-565-393-11	CONNECTOR, BOARD TO BOARD	
R752	1-249-426-11	CARBON	5.6K 5% 1/4W	<DIODE>			
				D1	8-719-105-91	DIODE RD5.6M-B2	
				D3	8-719-914-44	DIODE DAP202K	
				D4	8-719-400-18	DIODE MA152WK	
				D5	8-719-914-44	DIODE DAP202K	
				D6	8-719-400-18	DIODE MA152WK	
				D7	8-719-105-52	DIODE RD3.6M-B2	

V

H1

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
D9	8-719-106-17	DIODE RD6.8M-B2		R9	1-216-308-00	METAL GLAZE 4.7 5%	1/10W
		<IC>		R02	1-216-214-00	METAL GLAZE 4.7K 5%	1/8W
IC1	8-759-039-18	IC SDA20162-B002		R10	1-218-325-11	METAL GLAZE 120 5%	1/4W
IC2	8-759-510-46	IC SAA5246P/E		R11	1-218-325-11	METAL GLAZE 120 5%	1/4W
IC3	8-759-510-49	IC FCB61C65L-70P		R12	1-218-325-11	METAL GLAZE 120 5%	1/4W
		<COIL>		R13	1-216-025-00	METAL GLAZE 100 5%	1/10W
L1	1-408-403-00	INDUCTOR 3.3UH		R14	1-216-001-00	METAL GLAZE 10 5%	1/10W
L2	1-408-407-00	INDUCTOR 6.8UH		R15	1-216-013-00	METAL GLAZE 33 5%	1/10W
L3	1-408-407-00	INDUCTOR 6.8UH		R16	1-216-013-00	METAL GLAZE 33 5%	1/10W
L4	1-408-407-00	INDUCTOR 6.8UH		R17	1-216-013-00	METAL GLAZE 33 5%	1/10W
		<IC LINK>		R18	1-216-025-00	METAL GLAZE 100 5%	1/10W
PS1 Δ	1-532-679-91	LINK, IC (ICP-N15) 0.6A		R19	1-216-025-00	METAL GLAZE 100 5%	1/10W
		<TRANSISTOR>		R20	1-216-041-00	METAL GLAZE 470 5%	1/10W
Q1	8-729-900-53	TRANSISTOR DTC114EK		R21	1-216-041-00	METAL GLAZE 470 5%	1/10W
Q2	8-729-920-92	TRANSISTOR 2SD2096-BF		R22	1-216-168-00	METAL GLAZE 56 5%	1/8W
Q3	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R23	1-216-214-00	METAL GLAZE 4.7K 5%	1/8W
Q4	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R24	1-216-055-00	METAL GLAZE 1.8K 5%	1/10W
Q5	8-729-807-87	TRANSISTOR 2SB1295-UL6		R25	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
Q6	8-729-807-87	TRANSISTOR 2SB1295-UL6		R26	1-216-049-00	METAL GLAZE 1K 5%	1/10W
Q7	8-729-807-87	TRANSISTOR 2SB1295-UL6		R27	1-216-214-00	METAL GLAZE 4.7K 5%	1/8W
Q8	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R28	1-216-067-00	METAL GLAZE 5.6K 5%	1/10W
		<RESISTOR>		R34	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
JR01	1-216-295-00	METAL GLAZE 0 5%	1/10W	R35	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
JR02	1-216-295-00	METAL GLAZE 0 5%	1/10W	R40	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
JR03	1-216-295-00	METAL GLAZE 0 5%	1/10W	R41	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
JR08	1-216-295-00	METAL GLAZE 0 5%	1/10W	R42	1-216-049-00	METAL GLAZE 1K 5%	1/10W
JR09	1-216-295-00	METAL GLAZE 0 5%	1/10W	R44	1-216-295-00	METAL GLAZE 0 5%	1/10W
JR11	1-216-295-00	METAL GLAZE 0 5%	1/10W	R46	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
JR14	1-216-296-00	METAL GLAZE 0 5%	1/8W	R47	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
JR17	1-216-295-00	METAL GLAZE 0 5%	1/10W	R49	1-216-049-00	METAL GLAZE 1K 5%	1/10W
JR18	1-216-296-00	METAL GLAZE 0 5%	1/8W	R50	1-216-296-00	METAL GLAZE 0 5%	1/8W
JR19	1-216-296-00	METAL GLAZE 0 5%	1/8W			<VARIABLE RESISTOR>	
JR20	1-216-296-00	METAL GLAZE 0 5%	1/8W	RV1	1-238-012-11	RES, ADJ, CARBON 1K	
JR21	1-216-296-00	METAL GLAZE 0 5%	1/8W			<CRYSTAL>	
JR23	1-216-295-00	METAL GLAZE 0 5%	1/10W	X1	1-579-266-21	CRYSTAL VIBRATOR	
JR24	1-216-296-00	METAL GLAZE 0 5%	1/8W	X2	1-577-364-11	VIBRATOR, CERAMIC	
JR25	1-216-296-00	METAL GLAZE 0 5%	1/8W			*****	
JR26	1-216-296-00	METAL GLAZE 0 5%	1/8W		*1-638-391-11	H1 BOARD	
JR201	1-216-295-00	METAL GLAZE 0 5%	1/10W			*****	
JR204	1-216-295-00	METAL GLAZE 0 5%	1/10W			<CONNECTOR>	
JR207	1-216-295-00	METAL GLAZE 0 5%	1/10W	H1-1	*1-568-881-51	PIN, CONNECTOR 6P	
JR208	1-216-295-00	METAL GLAZE 0 5%	1/10W	H1-02	1-568-678-11	TERMINAL BLOCK, S 3P	
JR211	1-216-295-00	METAL GLAZE 0 5%	1/10W	H1-4	*1-568-879-51	PIN, CONNECTOR 4P	
JR213	1-216-295-00	METAL GLAZE 0 5%	1/10W	H1-05	1-562-837-11	JACK	
JR219	1-216-296-00	METAL GLAZE 0 5%	1/8W	H1-23	*1-568-879-51	PIN, CONNECTOR 4P	
JR220	1-216-295-00	METAL GLAZE 0 5%	1/10W	H1-43	*1-564-512-11	PLUG, CONNECTOR 9P	
JR223	1-216-295-00	METAL GLAZE 0 5%	1/10W			<RESISTOR>	
R1	1-218-326-11	METAL GLAZE 470 5%	1/2W	R1651	1-249-413-11	CARBON 470 5%	1/4W
R3	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R1652	1-249-413-11	CARBON 470 5%	1/4W
R4	1-216-025-00	METAL GLAZE 100 5%	1/10W			<SWITCH>	
R5	1-216-047-00	METAL GLAZE 820 5%	1/10W	S1651	1-571-532-21	SWITCH, TACTIL	
R6	1-216-001-00	METAL GLAZE 10 5%	1/10W	S1652	1-571-532-21	SWITCH, TACTIL	
R7	1-216-083-00	METAL GLAZE 27K 5%	1/10W				
R8	1-216-071-00	METAL GLAZE 8.2K 5%	1/10W				

J1

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J1

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C1443	1-124-902-00	ELECT	0.47MF 20% 50V			<JACK>	
C1444	1-124-910-11	ELECT	47MF 20% 50V	J1402	1-561-534-41	SOCKET 21P	
C1445	1-102-824-00	CERAMIC	470PF 5% 50V	J1403	1-561-534-41	SOCKET 21P	
C1446	1-102-824-00	CERAMIC	470PF 5% 50V			<TRANSISTOR>	
C1501	1-124-927-11	ELECT	4.7MF 20% 50V	Q201	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C1502	1-124-903-11	ELECT	1MF 20% 50V	Q202	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C1503	1-108-680-11	MYLAR	0.001MF 10% 100V	Q1401	8-729-216-22	TRANSISTOR 2SA1162-G	
C1504	1-124-910-11	ELECT	47MF 20% 50V	Q1402	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C1505	1-137-094-11	FILM	0.047MF 10% 100V	Q1403	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C1507	1-108-686-11	MYLAR	0.0033MF 10% 100V	Q1404	8-729-216-22	TRANSISTOR 2SA1162-G	
C1508	1-124-903-11	ELECT	1MF 20% 50V			<RESISTOR>	
C1509	1-124-903-11	ELECT	1MF 20% 50V	R201	1-216-079-00	METAL GLAZE 18K 5% 1/10W	
C1511	1-124-927-11	ELECT	4.7MF 20% 50V	R202	1-216-206-00	METAL GLAZE 2.2K 5% 1/8W	
C1513	1-163-105-00	CERAMIC CHIP	33PF 5% 50V	R203	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
		<CONNECTOR>		R204	1-216-085-00	METAL GLAZE 33K 5% 1/10W	
CN1401	1-565-838-11	JACK BLOCK, PIN 2P		R205	1-216-085-00	METAL GLAZE 33K 5% 1/10W	
J1-41	*1-566-641-11	CONNECTOR, HINGE (TAB) 18P		R206	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
J1-43	*1-564-524-11	PLUG, CONNECTOR 9P		R207	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
J1-44	*1-564-527-11	PLUG, CONNECTOR 12P		R208	1-216-077-00	METAL GLAZE 15K 5% 1/10W	
J1-51	*1-566-641-11	CONNECTOR, HINGE (TAB) 18P		R209	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
		<DIODE>		R210	1-216-077-00	METAL GLAZE 15K 5% 1/10W	
D201	8-719-110-14	DIODE RD9.1ES-B3		R211	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
D202	8-719-110-14	DIODE RD9.1ES-B3		R212	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
D205	8-719-110-03	DIODE RD7.5ES-B2		R213	1-216-077-00	METAL GLAZE 15K 5% 1/10W	
D206	8-719-110-03	DIODE RD7.5ES-B2		R214	1-216-033-00	METAL GLAZE 220 5% 1/10W	
D1401	8-719-110-03	DIODE RD7.5ES-B2		R215	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
D1403	8-719-110-03	DIODE RD7.5ES-B2		R216	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
D1404	8-719-110-03	DIODE RD7.5ES-B2		R217	1-216-077-00	METAL GLAZE 15K 5% 1/10W	
D1405	8-719-110-03	DIODE RD7.5ES-B2		R218	1-216-033-00	METAL GLAZE 220 5% 1/10W	
D1406	8-719-110-03	DIODE RD7.5ES-B2		R219	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
D1407	8-719-921-77	DIODE MTZN-10C		R220	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
D1408	8-719-110-14	DIODE RD9.1ES-B3		R221	1-216-041-00	METAL GLAZE 470 5% 1/10W	
D1409	8-719-110-14	DIODE RD9.1ES-B3		R222	1-216-041-00	METAL GLAZE 470 5% 1/10W	
D1410	8-719-110-14	DIODE RD9.1ES-B3		R223	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
D1415	8-719-110-03	DIODE RD7.5ES-B2		R224	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
D1418	8-719-110-03	DIODE RD7.5ES-B2		R225	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
D1419	8-719-110-03	DIODE RD7.5ES-B2		R226	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
D1420	8-719-110-03	DIODE RD7.5ES-B2		R227	1-216-033-00	METAL GLAZE 220 5% 1/10W	
D1421	8-719-110-03	DIODE RD7.5ES-B2		R228	1-216-033-00	METAL GLAZE 220 5% 1/10W	
D1422	8-719-110-03	DIODE RD7.5ES-B2		R229	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
D1423	8-719-110-03	DIODE RD7.5ES-B2		R230	1-216-079-00	METAL GLAZE 18K 5% 1/10W	
D1424	8-719-110-03	DIODE RD7.5ES-B2		R231	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
D1425	8-719-110-03	DIODE RD7.5ES-B2		R232	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
D1426	8-719-110-03	DIODE RD7.5ES-B2		R233	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
D1501	8-719-300-33	DIODE RU-3AM		R234	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
D1502	8-719-911-19	DIODE 1SS119		R235	1-216-295-00	METAL GLAZE 0 5% 1/10W	
D1503	8-719-911-19	DIODE 1SS119		R236	1-216-295-00	METAL GLAZE 0 5% 1/10W	
D1504	8-719-911-19	DIODE 1SS119		R240	1-216-033-00	METAL GLAZE 220 5% 1/10W	
D1505	8-719-911-19	DIODE 1SS119		R241	1-216-091-00	METAL GLAZE 56K 5% 1/10W	
D1506	8-719-982-33	DIODE MTZJ-36D		R242	1-216-091-00	METAL GLAZE 56K 5% 1/10W	
D1507	8-719-911-19	DIODE 1SS119		R243	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
D1510	8-719-911-19	DIODE 1SS119		R244	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W	
		<IC>		R245	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
IC201	8-759-013-17	IC TDA6200		R246	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W	
IC1401	8-752-053-17	IC CXA1114P		R247	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
IC1402	8-759-946-32	IC TEA2014A		R248	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W	
IC1403	8-759-140-53	IC UPD4053BC		R249	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
IC1501	8-759-942-16	IC TEA2031A		R250	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W	

IFG

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C12	1-136-298-00	FILM 0.0033MF	2% 100V	<RESISTOR>			
C13	1-124-477-11	ELECT 47MF	20% 16V	JR8	1-216-296-00	METAL GLAZE 0 5% 1/8W	
C14	1-124-477-11	ELECT 47MF	20% 16V	JR10	1-216-296-00	METAL GLAZE 0 5% 1/8W	
C15	1-124-477-11	ELECT 47MF	20% 16V	R1	1-216-045-00	METAL GLAZE 680 5% 1/10W	
C16	1-124-477-11	ELECT 47MF	20% 16V	R2	1-216-043-00	METAL GLAZE 560 5% 1/10W	
C17	1-124-907-11	ELECT 10MF	20% 50V	R3	1-216-043-00	METAL GLAZE 560 5% 1/10W	
C18	1-137-047-11	FILM 0.01MF	10% 400V	R5	1-216-045-00	METAL GLAZE 680 5% 1/10W	
C19	1-137-047-11	FILM 0.01MF	10% 400V	R6	1-216-043-00	METAL GLAZE 560 5% 1/10W	
C20	1-126-233-11	ELECT 22MF	20% 50V	R7	1-216-043-00	METAL GLAZE 560 5% 1/10W	
C21	1-126-233-11	ELECT 22MF	20% 50V	R9	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
C22	1-137-098-11	FILM 0.1MF	10% 100V	R11	1-216-095-00	METAL GLAZE 82K 5% 1/10W	
C23	1-137-031-11	FILM 0.22MF	10% 100V	R12	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
C24	1-124-034-51	ELECT 33MF	20% 16V	R13	1-216-071-00	METAL GLAZE 8.2K 5% 1/10W	
C25	1-137-102-11	FILM 0.022MF	10% 250V	R15	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W	
C26	1-137-094-11	FILM 0.047MF	10% 100V	R16	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
C27	1-124-903-11	ELECT 1MF	20% 50V	R17	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
C28	1-163-109-00	CERAMIC CHIP 47PF	5% 50V	R18	1-216-063-00	METAL GLAZE 3.9K 5% 1/10W	
C29	1-124-903-11	ELECT 1MF	20% 50V	R19	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
C30	1-124-903-11	ELECT 1MF	20% 50V	R20	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
C31	1-137-047-11	FILM 0.01MF	10% 400V	R22	1-216-099-00	METAL GLAZE 120K 5% 1/10W	
C32	1-130-479-00	MYLAR 0.0047MF	5% 50V	R24	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
C33	1-163-081-00	CERAMIC CHIP 0.22MF	25V	R25	1-216-077-00	METAL GLAZE 15K 5% 1/10W	
C34	1-137-031-11	FILM 0.22MF	10% 100V	<VARIABLE RESISTOR>			
C35	1-124-907-11	ELECT 10MF	20% 50V	RV1	1-238-016-11	RES, ADJ, CARBON 10K	
C36	1-163-119-00	CERAMIC CHIP 120PF	5% 50V	RV2	1-238-019-11	RES, ADJ, CARBON 47K	
C37	1-124-477-11	ELECT 47MF	20% 16V	*****			
C38	1-124-477-11	ELECT 47MF	20% 16V	MISCELLANEOUS			
C39	1-163-133-00	CERAMIC CHIP 470PF	5% 50V	*****			
<FILTER>				Δ 1-426-398-11 COIL, DEMAGNETIZATION			
CDA1	1-404-751-11	DISCRIMINATOR, CERAMIC		Δ 1-451-313-21 DEFLECTION YOKE (Y29FXA)			
CDA2	1-404-750-11	DISCRIMINATOR, CERAMIC		1-452-032-00 MAGNET, DISK; 10MM ϕ			
SFT1	1-527-840-00	FILTER, CERAMIC		1-452-094-00 MAGNET, ROTATABLE DISK; 15MM ϕ			
SFT2	1-527-839-00	FILTER, CERAMIC		Δ 1-452-509-42 NECK ASSY, PICTURE TUBE (NA-308)			
<DIODE>				1-544-475-11 SPEAKER			
D3	8-719-400-18	DIODE MA152WK		Δ 1-590-501-11 CORD, POWER(WITH NOISE FILTER)			
<IC>				V901 Δ 8-733-823-05 PICTURE TUBE (A68JYK60X)			
IC1	8-759-003-90	IC TBA129		*****			
IC2	8-759-003-90	IC TBA129		ACCESSORIES AND PACKING MATERIALS			
IC3	8-759-030-48	IC TDA6600-2		*****			
IC4	8-759-513-48	IC TDA2595/V9		PART NO. DESCRIPTION REMARK			
<CONNECTOR>				4-200-599-11	MANUAL, INSTRUCTION (GERMAN/ENGLISH/FRENCH/ITALIAN/DUTCH/PORTUGUESE)		
IFG13	*1-565-488-11	CONNECTOR, BOARD TO BOARD 12P		*4-031-996-01	CUSHION (UPPER) (ASSY)		
<COIL>				*4-031-997-01	CUSHION (LOWER) (ASSY)		
L1	1-408-410-00	INDUCTOR 12UH		*4-031-998-01	INDIVIDUAL CARTON		
L2	1-408-410-00	INDUCTOR 12UH		4-384-027-01	BAG, PROTECTION		
L3	1-410-064-11	INDUCTOR 2.7MMH		REMOTE COMMANDER			
L4	1-408-421-00	INDUCTOR 100UH		1-465-796-21	CONTROL UNIT, REMOTE (RM-816)		
L5	1-408-421-00	INDUCTOR 100UH		4-031-670-01	COVER, POCKET (FOR RM-816)		
<TRANSISTOR>							
Q2	8-729-901-00	TRANSISTOR DTC124EK					
Q3	8-729-216-22	TRANSISTOR 2SA1162-G					
Q4	8-729-901-00	TRANSISTOR DTC124EK					